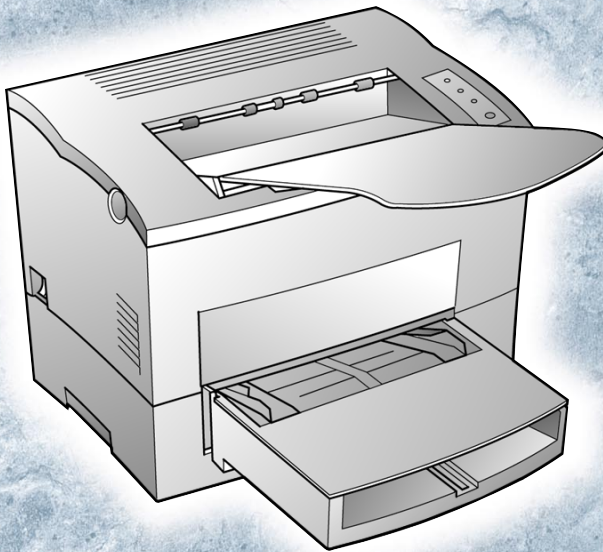




MINOLTA

PageWorks 18

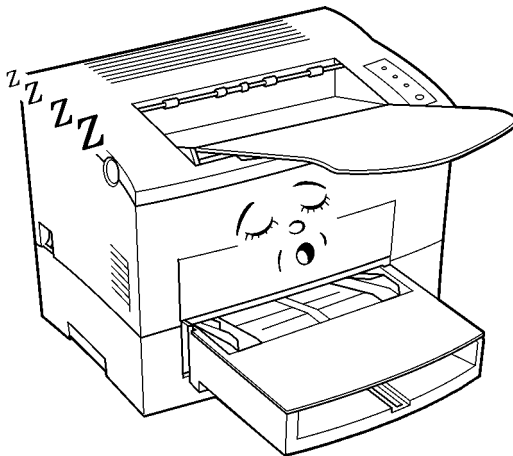
User's Manual



PageWorks
18



As an ENERGY STAR® Partner, we have determined that this machine meets the ENERGY STAR® Guidelines for energy efficiency.



What is an ENERGY STAR® Printer ?

ENERGY STAR® printers have a feature that allows them to automatically “go to sleep” after a period of inactivity. This auto-feature can reduce a machine’s annual electricity cost by 60 percent.

Safety Information

Laser Safety

This is a page printer which operates by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions in this manual.

Since radiation emitted by the laser is completely confined within protective housing, the laser beam cannot escape from the machine during any phase of user operation.

Internal Laser Radiation

Maximum Radiation Power : 1.03 (mW) at laser aperture of the print head unit

Wavelength : 770-810 (nm)

This product employs Class IIIb Laser Diode.

Laser Diode and Scanning Polygon Mirror are incorporated in the print head unit.

The print head unit is NOT A FIELD SERVICE ITEM.

Therefore, the print head unit should not be opened under any circumstance.

Laser Safety

This printer is certified as a Class 1 Laser product under the **U.S.**

Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

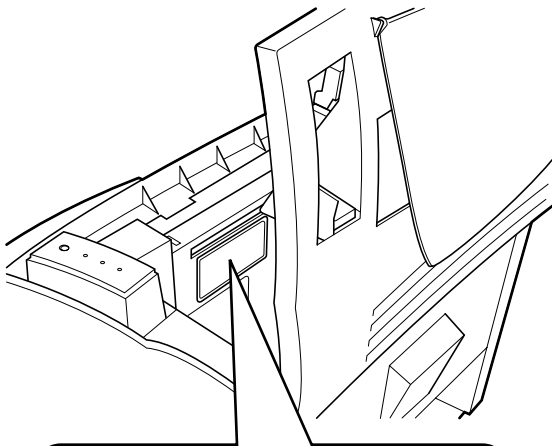
CDRH Regulations

The **Center for Devices and Radiological Health (CDRH)** of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown on the following page indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

WARNING: Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is 5mW and the wavelength is 770-810 nm.

WARNING LABEL



注意- ここを覗くとき平光レーザー光が出ます。レーザーを直接見たり、触れたりしないでください。
CAUTION- INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
VORSICHT- UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN
ADVARSEL- USYNLIG LASERSTRÅLING NÅR DEKKEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN
VARO! LASERISÄTTYLLE ÄLLÄ KATSO SUITESSEN
ADVARSEL- USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
VARNING- OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD STRÅLEN ÄR FARLIG
注意- ここを覗くとき平光レーザー光が出ます。レーザーを直接見たり、触れたりしないでください。

USER INSTRUCTIONS (For U.S.A. Users)
FCC PART 15 - RADIO FREQUENCY DEVICES WARNING

FCC: Declaration of Conformity	
Product Type	Laser Beam Printer
Product Name	PageWorks 18
Options Accessories	Second Paper Cassette Unit (4166) Third Paper Cassette Unit (4166) Duplex Unit (4168) DRAM SIMM (Maximum 64MB) Adobe PostScript SIMM (4179-291) Network Interface Card (4179-241, 4179-251)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446 Telephone number: 201-825-4000	

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interface by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and the receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**

Foreword

This device must be used with a shielded interface cable and shielded network (10/100BaseT and/or 10Base2) cable. The use of non-shield cables is likely to result in interference with radio communications and is prohibited under FCC rules.

The design and production of this unit conform to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by the purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.

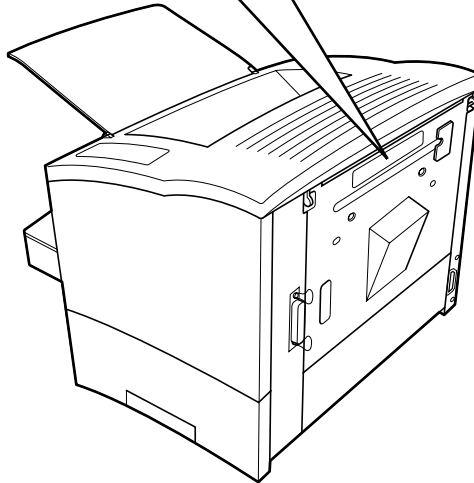
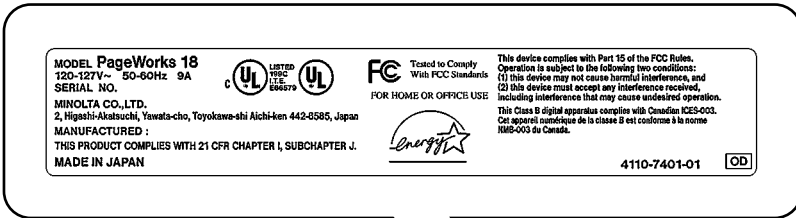
USER INSTRUCTIONS (For Canada Users) INTERFERENCE-CAUSING EQUIPMENT STANDARD (ICES-003 ISSUE 3) WARNING

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

OZONE RELEASE (For All Users)

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm anyone adversely. However, be sure the room where the machine is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the machine is being used continuously over a long period.

WARNING LABEL



Welcome

And thank you for selecting a Minolta PageWorks 18 Printer! This *User's Manual* explains the functions of the printer and how it operates. It also provides you with troubleshooting tips as well as general precautions you should observe when operating the printer. To ensure the top performance and effective use of your printer, read this manual carefully from cover to cover, and keep it at hand for later reference.

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into other languages without the express written prior consent of Minolta Co., Ltd.

The contents of this manual are subject to change without notice.

Trademark Acknowledgments

PCL is a registered trademark of Hewlett-Packard Company.

Centronics is a registered trademark of Centronics Inc.

MS-DOS, Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation.

IBM is a registered trademark of International Business Machines Corporation.

Adobe and PostScript are registered trademarks of Adobe Systems, Inc.

PageWorks is a trademark of Minolta in the U.S. and Canada.

Fine-ART and Fine Micro Toning are trademarks of Minolta Co., Ltd.

All other brand or product names are trademarks or registered trademarks of their respective companies or organizations.

Technical Support

Technical support for all Minolta PageWorks printer products is available 24 hours a day, seven days a week by calling **1-800-459-3250** (from within North America). Minolta also maintains a Web site which provides printer driver downloads, Frequently Asked Questions and handles all e-mail requests for technical assistance at:

<http://www.minoltaprinters.com>.

Please be prepared to provide the following information when contacting Minolta Technical Support:

- Model Name
- Serial number
- A detailed description of the problem

For questions or problems with installation, please be prepared to provide the following additional information:

- Brand name and model number of the computer
- Type of processor
- Type of operating system
- Amount of installed RAM

CONTENTS

Chapter 1: Introduction

Features.....1-1

Printer Parts and Accessories1-2

Control Panel1-4

 Indicator Lights.....1-4

 Control Panel Button1-8

 Job Cancel.....1-8

 Print Configuration.....1-8

 Form Feed1-8

Chapter 2: Setting-up

Installation Precautions2-1

 Selecting a Location for the Printer2-1

 Power Source2-2

 Grounding2-2

 Space Requirements.....2-3

Operational Precautions2-4

 Operating Environment2-4

 Printer2-4

 Printer Supplies.....2-6

Setting-up	2-7
Installing the Face-Down Tray	2-7
Installing Tray 1	2-8
Connecting the Power Cord	2-9
Loading Paper	2-10
Turning On the Printer	2-12
Testing the Printer	2-13
Connecting to a Computer	2-15
Options	2-16
SIMM (Single In-line Memory Module)	2-16
Installing the Optional SIMM	2-16
Duplex Unit	2-21
Installing the Duplex Unit	2-21
Second/Third Paper Cassette Unit	2-24
Installing the Optional Second/Third Paper Cassette Unit	2-24
Adobe PostScript ROM-SIMM	2-28
Installing the Optional Adobe PostScript ROM-SIMM	2-28
Network Interface Card (NIC)	2-33
Installing the Optional Network Interface Card	2-33

Chapter 3: Using the Printer

Paper.....	3-1
Type.....	3-1
Size	3-1
Standard size.....	3-1
Envelopes and custom sizes (Tray 1 and Manual Feed Tray)	3-2
Loading Paper.....	3-3
Loading Paper onto Tray 1	3-4
Loading Paper onto Tray 2/Tray 3.....	3-7
Manual Paper Feed.....	3-11
Printing on Envelopes	3-13
Duplex Printing.....	3-15
Paper Type.....	3-16
Paper Size	3-16

Chapter 4: Printer Driver

Introduction.....	4-1
System Requirements.....	4-1
Installing the Printer Driver Under Windows 95/98.....	4-2
To Install the Printer Driver Using the Installer (Auto Run)	4-2
To Uninstall the Printer Driver	4-6

Installing the Printer Driver Under Windows NT 4.0	4-8
To Install the Printer Driver Using the Installer (Auto Run)	4-8
To Uninstall the Printer Driver	4-14
Installing the Printer Driver Under Windows 3.1	4-16
To Install the Printer Driver	4-16
To Uninstall the Printer Driver	4-19
Displaying the Driver Setup Dialog (Windows 95/98/NT 4.0).....	4-21
To Display the Driver Setup Dialog Under Windows 95/98.....	4-21
To Display the Driver Setup Dialog Under Windows NT 4.0	4-23
Using the Printer Driver Under Windows 95/98/NT 4.0	4-25
Common Buttons	4-25
Paper.....	4-26
Page Layout	4-31
Quality	4-36
Device Option.....	4-40
About.....	4-40
Displaying the Driver Setup Dialog (Windows 3.1)	4-41

Using the Printer Driver Under Windows 3.1	4-43
Common Buttons	4-43
Settings	4-44
DOS Printing Utilities	4-49
Installing the Printer Driver Under DOS	4-49
Loading and Unloading the Status Display	4-51
To Load the Status Display From the DOS Prompt.....	4-51
To Remove the Status Display From Memory ..	4-51
Accessing the Printer Control Panel	4-52
To Access the Printer Control Panel	4-52
To Exit the Printer Control Panel	4-52
Using the Printer Control Panel	4-53
Getting Around in the Printer Control Panel	4-53
To Print a Test Page or Demo Page	4-54
To Register Installed Options	4-54
Printer Control Panel Screens.....	4-54
Common Buttons	4-54
Paper Screen	4-55
Font Selection Screen.....	4-57
Output Quality Screen.....	4-58
Counter Screen	4-59
Configuration Screen	4-60
Printer Setting Screen.....	4-61

Using the Status Display	4-63
To Display the Status Display	4-63
Status Display Screen	4-64
Set Display Mode Command (Setup Menu)	4-64
Change Hot Key Command (Setup Menu)	4-64
Change Popup Message Command (Setup Menu)	4-64
Close (button)	4-65
Help (button)	4-65

Chapter 5: Printer Status Display and Control Panel

Using the Printer Status Display	5-1
Opening the Printer Status Display	5-1
To Open the Printer Status Display	5-1
To Close the Printer Status Display	5-2
Using the Printer Status Display	5-2
Printer Status	5-2
How to recover	5-2
Printer Status figure	5-2
Switching Between the Expanded and Reduced Views	5-3
On-line Help	5-3

Using the Control Panel	5-4
Common Buttons	5-5
Paper	5-6
Printer Setting	5-8
Test Print	5-10
Counter	5-11
Configuration	5-12

Chapter 6: Maintenance

Replacing the Imaging Cartridge	6-1
To Replace the Imaging Cartridge	6-2
Cleaning the Printer	6-6
Cleaning the Outside of the Printer	6-6
Cleaning the Paper Transport Roller	6-7

Chapter 7: Troubleshooting

Technical Support	7-1
Clearing a Paper Misfeed	7-2
Inside the Printer	7-2
Paper Output Misfeed	7-6
Paper Input Misfeed (from Tray 1)	7-7
Paper Input Misfeed (from Manual Feed Tray)	7-7
Paper Input Misfeed (from Second/Third Paper Cassette Unit)	7-8

Paper Misfeed in the Duplex Unit.....	7-9
Upper Misfeed	7-9
Lower Misfeed.....	7-9
Print Quality Problems.....	7-10
Blank pages	7-10
Black pages.....	7-10
Printout too light	7-11
Printout too dark.....	7-11
Blurred background.....	7-12
Uneven print density	7-12
Irregularities	7-12
White or black line	7-13
Toner smudges.....	7-13
No output.....	7-14
Are you using the correct type of printer cable?	7-14
Are your computer's communications port settings correct?	7-14

Chapter 8: Specifications

PageWorks 18 Printer.....	8-1
Second Paper Cassette Unit (Option).....	8-4
Third Paper Cassette Unit (Option).....	8-5
Duplex Unit (Option).....	8-6

Contents

Interface Connector and Cable8-7
SIMM (Option)8-8

Appendix A: Glossary

Appendix B: Index

Chapter 1

Introduction

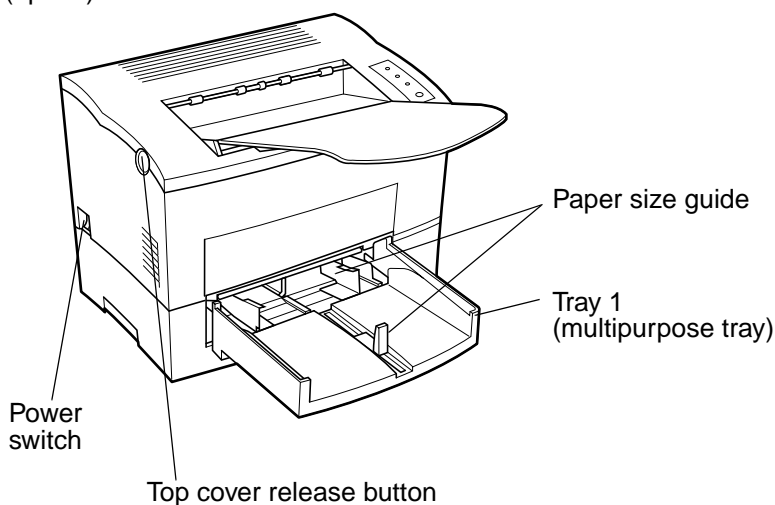
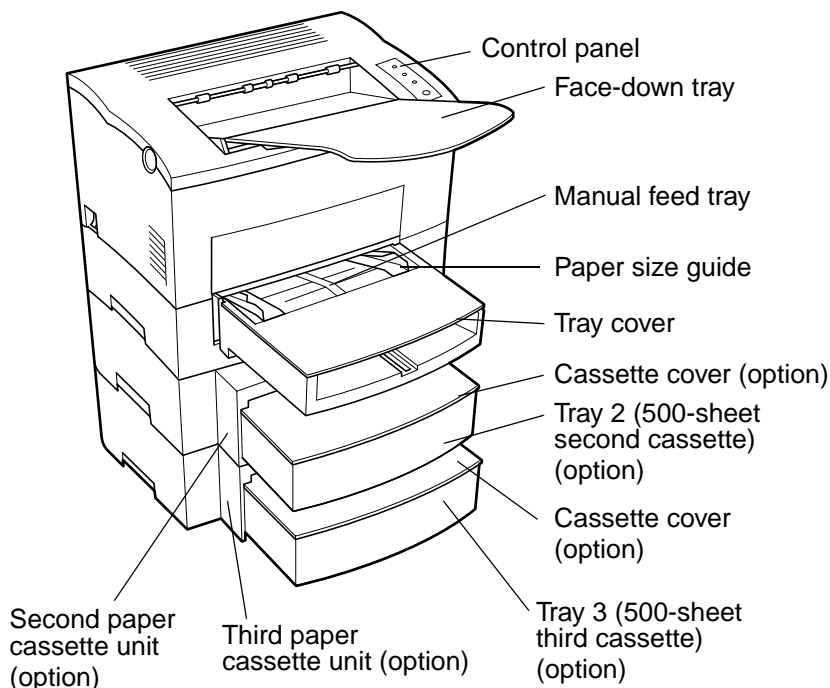
Features

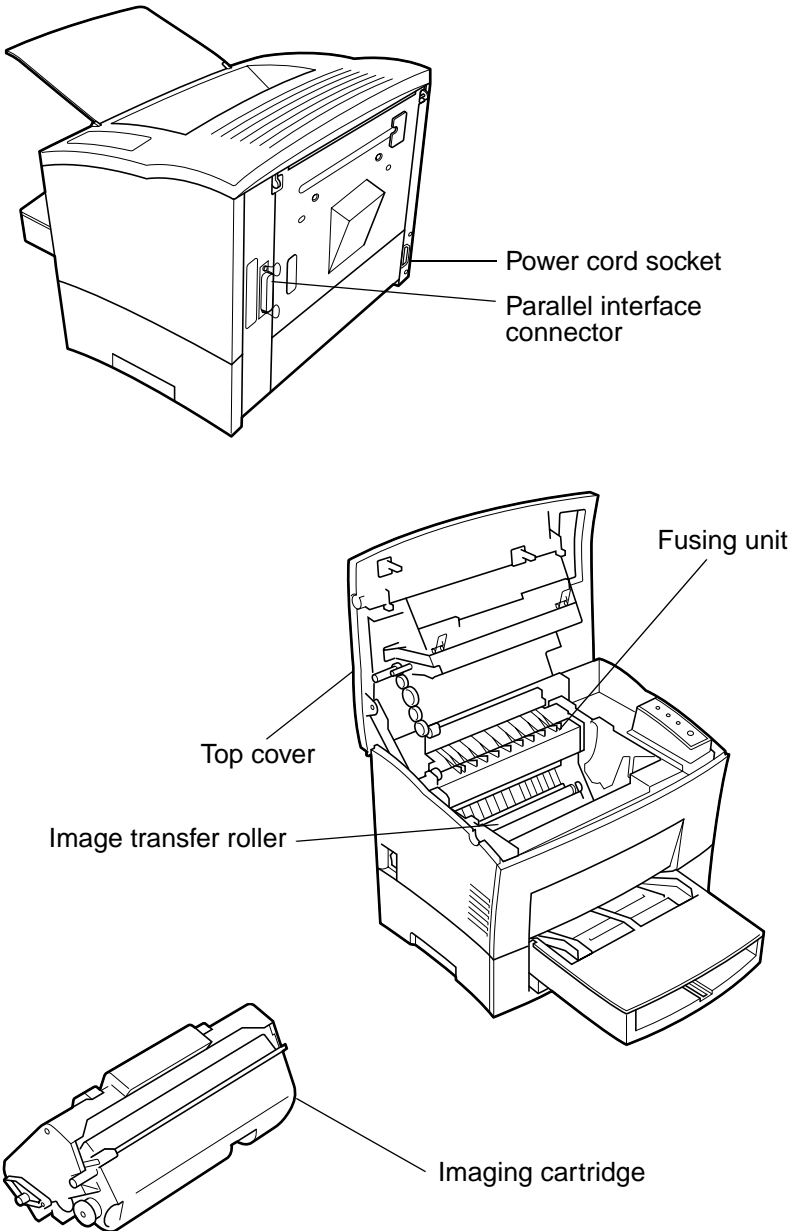
The Minolta PageWorks 18 is a laser beam printer developed exclusively for use with Windows 95, Windows 98, Windows NT 4.0, Windows 3.1 and DOS operating systems.

The various features listed below make the Minolta PageWorks 18 *the perfect printer for any size office*.

- Fast 18-page per minute printing speed
- PCL 6 support for faster, more precise printing
- Supports two optional Ethernet network interface cards (10/100BaseT and 10Base2)
- Powerful 66 MHz Power PC and QuickPrint dual processors
- 4 MB of memory
- Expanded digital-documentation support through an optional Adobe PostScript 3 SIMM

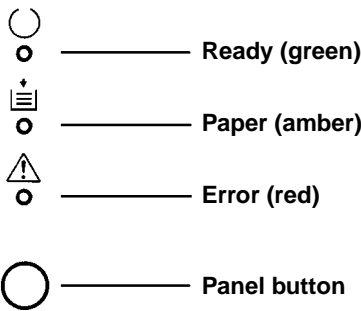
Printer Parts and Accessories





Control Panel

The **control panel** has three indicator lights and one button.



Indicator Lights

The three indicator lights turn on, off, or blink in combination to let you know the current status of the printer. You can find out details of the printer’s status by checking the information that appears on your computer screen through the Status Monitor.

Indicator Lights			Printer Status and Recommended Action
Ready (green)	Paper (amber)	Error (red)	
On	Off	Off	Printer is ready.
Off	Off	Off	Power is off.
			Turn on the printer.
Blinking	Off	Off	Receiving data via parallel interface; printing in progress.
Blinking	Off	On	Receiving data via network interface.
Blinking	Blinking	Blinking	Canceling job.

Indicator Lights			Printer Status and Recommended Action
Ready (green)	Paper (amber)	Error (red)	
Blinking	Blinking	Off	Warming up.
On	On	On	“Power on” initial setting.
Slow Blinking	Off	Off	Power save mode.
Off	On	Off	Out of paper.
			Load more paper to continue printing.
On	Off	On	The imaging cartridge is low on toner.
			Ready a new imaging cartridge. See page 6-1.
On	Blinking	On	The imaging cartridge is out of toner.
			Replace the imaging cartridge. See page 6-1.
Off	Blinking	On	Data is currently being compressed because more data is being processed than can be managed by the amount of memory installed in your printer. You may notice a difference in image quality when compressed data is printed.
			Installation of additional memory will help to prevent data from being compressed.
Off	Off	Blinking	Memory overflow/data received cannot be processed because it is too complex.
			Install an optional expansion memory SIMM into the printer or decrease the amount of data being sent to the printer.

Indicator Lights			Printer Status and Recommended Action
Ready (green)	Paper (amber)	Error (red)	
Off	Blinking	Blinking	The wrong size or multiple sheets of paper were fed into the printer.
			Load the appropriate size of paper onto the specified tray. Press the button to resume printing.
On	Blinking	Off	The printer is waiting for paper to be loaded.
			Load the appropriate size of paper onto one of the trays.
On	On	Off	The printer is waiting for paper to be loaded manually.
			Load the appropriate size of paper onto the manual feed tray and press the panel button.
Off	Off	On	Cover is open.
			Close the cover.
Off	Blinking	Off	Paper misfeed.
			Clear the paper misfeed to continue printing.
On	Blinking	Blinking	1 The second or third paper cassette unit is not installed.
			2 The optional NIC is not ready.
			1 Press and hold the panel button. 2 If this message persists for an extended period, the optional NIC may be damaged or disabled. Contact Minolta Technical Support.

Indicator Lights			Printer Status and Recommended Action
Ready (green)	Paper (amber)	Error (red)	
Off	On	Blinking	Controller-memory error.
			Turn off the printer and contact Minolta Technical Support.
On	Off	Blinking	Engine error (fusing unit).
			Turn off the printer and contact Minolta Technical Support immediately.
On	On	Blinking	Engine error (laser).
			Turn the printer off and on again. If the problem persists, contact Minolta Technical Support.
Blinking	Off	Blinking	Engine error (polygon scanner).
			Turn the printer off and on again. If the problem persists, contact Minolta Technical Support.
Blinking	On	Blinking	Engine error (fan motor).
			Turn the printer off and on again. If the problem persists, contact Minolta Technical Support.
Blinking	Blinking	On	Engine error (HSYNC).
			Turn off the printer and contact Minolta Technical Support.

Control Panel Button

Depending on the status of the printer, the **control panel button** performs any one of the following operations.

- Job cancel
- Print configuration page
- Form feed

Job Cancel

Use the following procedure whenever you want to cancel the current job.

1. Hold down the **control panel button** for about five seconds.
2. After all the indicator lights are lit, release the **control panel button** to cancel the print job.

Print Configuration

Use the following procedure whenever you want to print a sheet that shows the current printer settings.

- Briefly press the **control panel button** to start printing the configuration page.

Form Feed

When a memory overflow occurs, press the **control panel button** to perform a form feed.

Chapter
Setting-up

2

Installation Precautions

Note the following important precautions when selecting a location for the printer and when connecting it to a power source.

Selecting a Location for the Printer

A proper location helps to ensure that your printer provides you with the long service life for which it is designed. Double-check to make sure that the location you select has the following characteristics.

- ✓ Choose a location that is well-ventilated.
- ✓ Make sure there is no chance of ammonia or other organic gases being generated in the area.
- ✓ The power outlet you plan to connect to should be nearby and unobstructed.
- ✓ Make sure that the printer is not exposed to direct sunlight.
- ✓ Avoid areas in the direct airflow of air conditioners, heaters, or ventilators, and areas subjected to temperature and humidity extremes.
- ✓ Choose a sturdy, level surface where the printer will not be exposed to strong vibration.
- ✓ Keep the printer away from any objects that might block its heat vents.
- ✓ Do not locate the printer near curtains or other combustible objects.
- ✓ Choose an area where there is no possibility of the printer being splashed with water or other liquids.
- ✓ Make sure that the surrounding area is clean, dry, and free of dust.

Power Source

The following are the power source requirements for this printer.

- Power source: 120 - 127 V at 50 - 60 Hz
- Voltage fluctuation: Within 120 V -10%, 127 V +6%
- Frequency fluctuation: Within $\pm 0.3\%$

Note

- Use a power source with minimal voltage and frequency fluctuation.
- Only use an outlet that is rated for the voltage capacity specified for this printer.
- Be sure to plug the power cord all the way into the outlet. The outlet should be located near the printer and be easily accessible so you can unplug the power cord immediately if necessary.
- Make sure the outlet you use is visible, and not hidden behind the printer or any other object.
- If any other electrical equipment is plugged into the same outlet, make sure that the capacity of the outlet is not exceeded.
- If you use an extension cord, make sure its capacity is greater than the power consumption of the printer. Using an extension cord with a lower capacity creates the danger of fire.
- Never use a multiple socket to connect other appliances or machines to the same outlet being used to power the printer.

Grounding

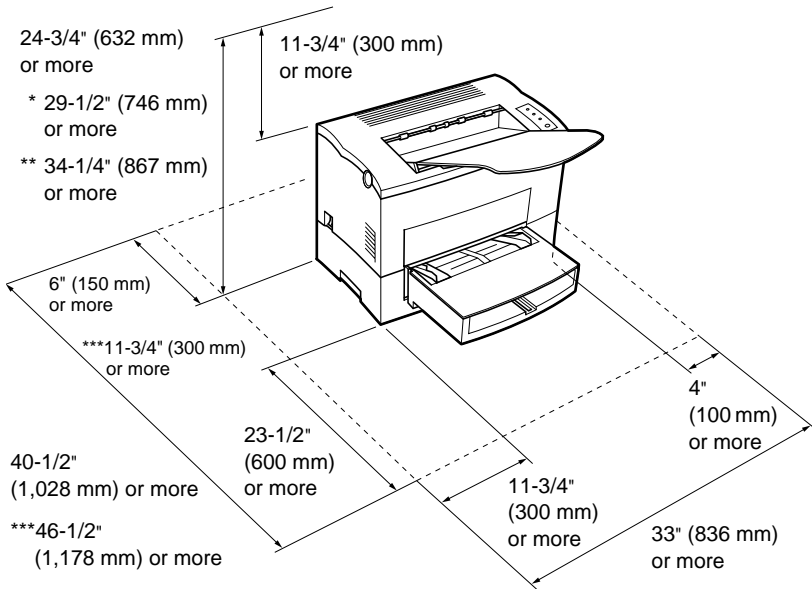
Always ground the printer to guard against the danger of electrical shock. To ground the printer, connect the grounding wire to the ground terminal of the electrical outlet you are plugging into or to a grounding contact that complies with local electrical standards in your area.

Note

- Never connect the grounding wire to a gas pipe, the grounding wire for a telephone, or to a water pipe.

Space Requirements

Be sure to provide space around the printer as indicated below, to ensure easier printer operation, paper and toner replacement, and maintenance.



* When equipped with an optional second cassette unit.

** When equipped with an optional third cassette unit.

*** When equipped with an optional duplex unit.

Operational Precautions

Note the following important precautions whenever using the printer.

Operating Environment

The following describes the operating environment required when using the printer.

- Temperature: 10°C to 35°C (50°F to 95°F) with fluctuation of 10°C (18°F) per hour
- Humidity: 15% to 85% with fluctuation of 20% per hour

Printer

The following describes precautions for using the printer.

- Never turn the printer off or open any of its covers during a print operation.
- Never place flammable gasses, liquids or objects that generate magnetic forces near the printer.
- When unplugging the power cord, always grasp the plug and never pull on the cord. A damaged cord creates the danger of fire or electrical shock.
- Never touch the power cord when your hands are wet. Doing so creates the danger of electrical shock.
- Always unplug the power cord before moving the printer. Failure to do so can damage the power cord, creating the danger of fire or electrical shock.
- Always unplug the power cord if you do not plan to use the printer for a long time.
- Never try to remove any secured panel or cover. The interior of the printer contains high-voltage circuitry which creates the danger of electrical shock when exposed.

- Never try to modify the printer. Doing so creates the danger of fire or electrical shock.
- Never place any heavy objects on the power cord, pull on it or bend it. Doing so creates the danger of fire or electrical shock.
- Always make sure the printer is not placed on the electrical cord or the communications cables of any other electrical equipment. Also make sure that cords and cables do not get into the printer's mechanism. Any of these conditions create the danger of malfunction and fire.
- Always take care so that paper clips, staples, or other small pieces of metal do not get into the printer through its vents or other openings. Such objects create the danger of fire or electrical shock.
- Do not allow water or other liquids to spill on or near the printer. Fire or electrical shock can occur should water or liquid come into contact with the printer.
- Should liquid or any piece of metal accidentally get inside the printer, immediately turn it off, unplug the power cord, and contact Minolta Technical Support. Failure to take this immediate action creates the danger of fire or electrical shock.
- Whenever the printer emits unusually high amounts of heat, smoke, an unusual odor, or noise, immediately turn it off, unplug it, and contact Minolta Technical Support. Failure to take this immediate action creates the danger of fire or electrical shock.

Note

- Be sure to locate the printer in a well-ventilated location. A minimal amount of ozone is generated during normal operation of this printer. Because of this, an unpleasant odor may result when the printer is used for extensive printing in a poorly ventilated area. For comfortable, and safe operation, be sure to locate the printer in a well-ventilated area.

Printer Supplies

Note the following precautions when handling printer supplies such as the **imaging cartridge**, and paper.

- Avoid storing printer supplies in the following locations:
 - ✓ Areas subjected to direct sunlight. Additionally, the **imaging cartridge** must be protected from fluorescent light.
 - ✓ Areas exposed to open flame.
 - ✓ Areas subjected to high humidity.
 - ✓ Areas subjected to large amounts of dust.
- Keep paper that has been removed from its wrapper, but not yet loaded onto the printer tray, in a sealed plastic bag and store it in a cool, dark location.
- Only use **imaging cartridges** that are expressly specified for this printer.
- Keep supplies out of the reach of children.
- Should your hands become soiled with toner, immediately wash them with soap and water.

Note

- Whenever you remove the **imaging cartridge** from the printer, immediately wrap it with a cloth to protect it from overexposure to light.

Setting-up

See the separate *Quick Guide for Installation and Reference* that comes with the printer before unpacking.

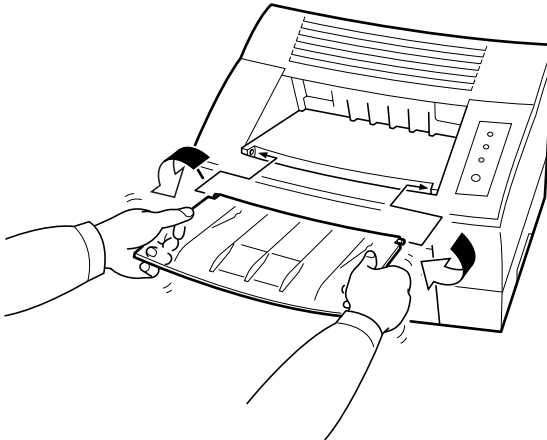
Set-up the printer according to the following instructions.

Note

- Always use a shielded interface cable. Use of an unshielded cable can result in radio interference with data.
- Keep all the boxes and packing materials that the printer comes in for later use when transporting the printer.

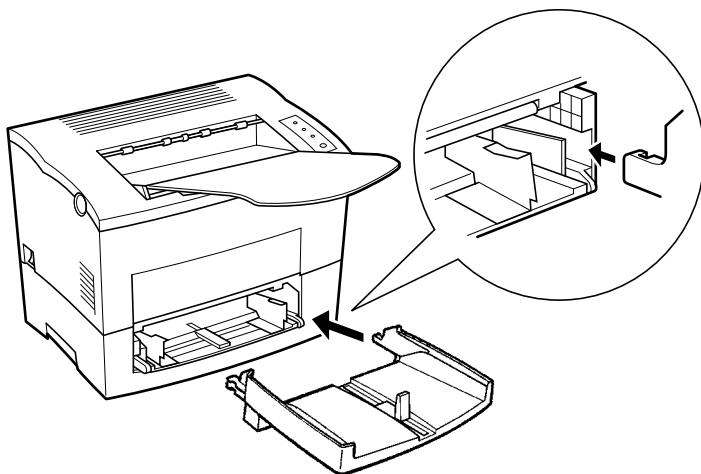
Installing the Face-Down Tray

With both hands, gently bend the **face-down tray** inwards and insert one of its tabs into its holder on the upper portion of the printer. Continue to bend the **face-down tray** so that it curves enough for the second tab to fit into its holder and release the tray into position.

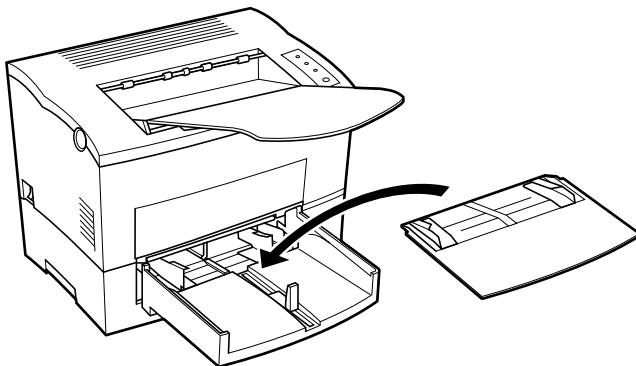


Installing Tray 1

- 1 Using the left and right slots in the printer as guides, gently push **Tray 1** until it cannot be inserted any further (as shown in the illustration).

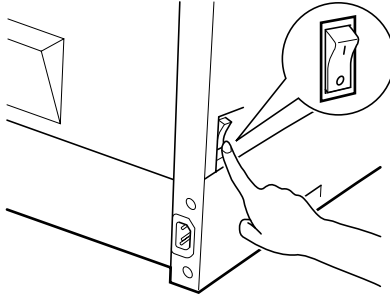


- 2 Attach the **tray cover** onto **Tray 1**.

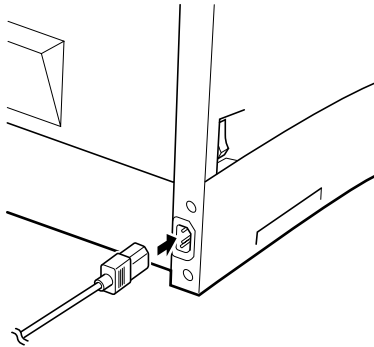


Connecting the Power Cord

- 1 Make sure that the printer's power switch is in the ○ (Off) position.

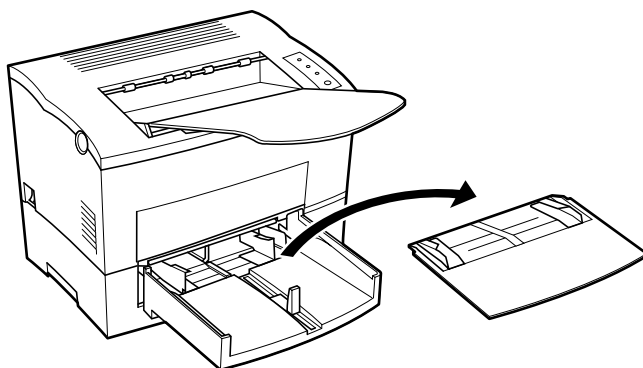


- 2 Connect one end of the power cord that comes with the printer to the power cord socket. Plug the other end into a power outlet.

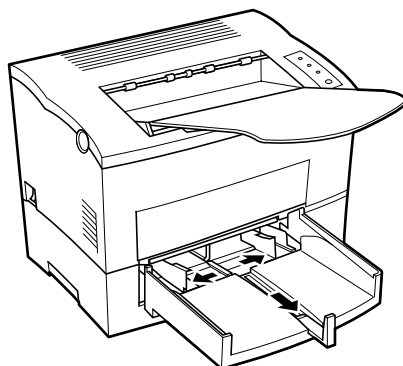


Loading Paper

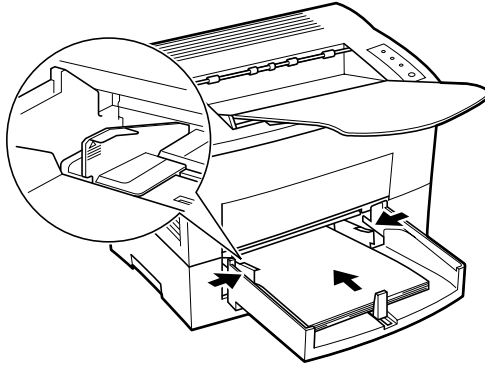
- 1 Remove the **tray cover** from **Tray 1**.



- 2 Open all three **paper size guides**.



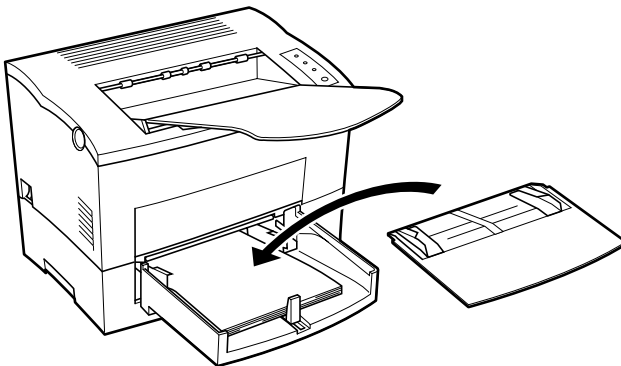
- 3 Place the paper stack onto the tray, print-side up. Secure the stack by adjusting the **paper size guides**.



Note

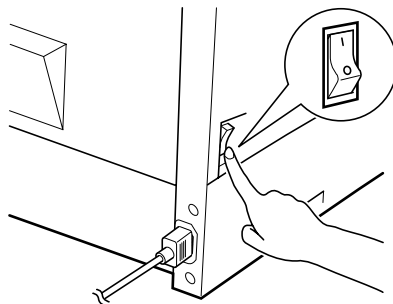
- A maximum level mark on the **paper size guide** shows how high you can stack paper on **Tray 1**. Make sure that paper is stacked no higher than this mark.
- See pages 4-56 and 5-7 for details on making settings for **Tray 1**.

- 4 Replace the **tray cover** onto **Tray 1**.



Turning On the Printer

After connecting the printer to a power outlet, press the power switch to turn it on.



Turning on the printer causes all the indicators on the **control panel** to light, which indicates that the printer is warming up. In about 23 seconds only the **READY indicator** remains lit, indicating that the printer is ready to print.

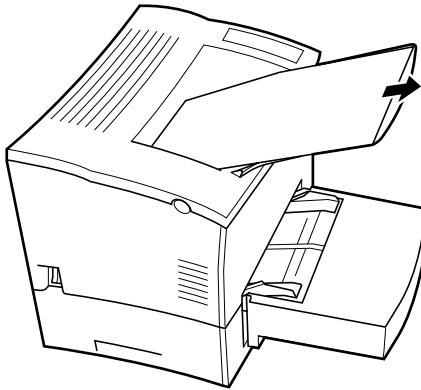
Note

- The printer automatically enters a power saving mode if it receives no print commands for about 15 minutes. Whenever the printer receives a print command while in the power saving mode, it starts to warm up again and takes about 23 seconds before it is ready to print.

Testing the Printer

Before connecting to a computer, perform the following procedure to print a Configuration Page and see if the printer is working correctly.

- 1** Place the paper onto **Tray 1**.
- 2** Make sure that both the **PAPER** and **ERROR** indicators are off, and the **READY** indicator is on. This indicates there is no existing error condition and no data remaining to be printed.
- 3** Briefly press the **panel button** to start printing the Configuration Page.



Sample Configuration Page

Chapter 2

Setting-up

MINOLTA PageWorks18 Configuration Page

PRINTER DEFAULT

Paper Size = LETTER
Orientation = PORTRAIT
Copies = 1
Paper Source = TRAY1
Priority Feed = TRAY1
Tray1 Setting = FIX
Tray1 Size = LETTER
Detect Size Error = ON
Auto Continue = ON
Paper Time Out = PROCEED
Jam Recovery = OFF
Fine ART = ON
Toner Save = Off
Emulation Switch = PCL
Line/Page = 60
Jogging = NO

PRINTER SETTING

Power Save = ON
ID Time Out Parallel = 15
Pre-Heat = ON

PRINTER CONFIGURATION

Tray 2 = Not Installed
Tray 3 = Not Installed
Duplex Unit = Not Installed
Network Card = Not Installed

PRINTER INFORMATION

Controller Firmware Version = XXXXXXXXXXXX
Engine Firmware Version = XXXXXXXXXXXX
Total Counter = 1100
Tray2 Counter = 55
Tray3 Counter = 0
Total Memory = 4 MB

PCL SETTING

Font Source = INTERNAL
Font Number = 0
Font Size = 12.00
Font Pitch = 10.50
Symbol Set = ROMAN-8
PCL 5a Version = 1.4.10
PCL 5e Version = 1.1.10

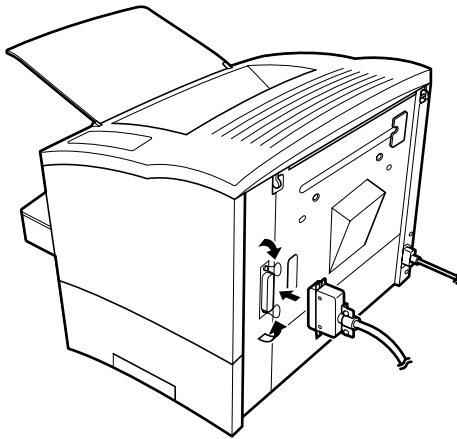
Note

- See Chapter 7 of this manual for information on what to do if the Configuration Page does not print when you press the **panel button**.
- The Configuration Page can be printed on Letter size paper only.

2-14

Connecting to a Computer

- 1 Make sure that the printer and the computer you are connecting it to are both turned off.
- 2 Connect one end of the interface cable to the parallel port of the computer.
- 3 Connect the other end of the cable to the parallel connector on the back of the printer. Secure the cable using the two clips on the parallel connector.



See page 8-7 of this *User's Manual* for cable specifications and pin assignments.

Options

This section describes the optional items that are available for this printer: **Memory SIMM(s), Duplex Unit, Second Paper Cassette Unit, Third Paper Cassette Unit, Adobe PostScript ROM-SIMM,** and the **Network Interface Card.**

SIMM (Single In-line Memory Module)

Many errors caused by data overload can be avoided by installing additional memory into the printer.

This printer comes with 4 MB of memory. You can increase memory capacity to up to 64 MB by installing an optional 1, 2, 4, 8, 16 or 32 MB SIMM into one or both of the two memory connectors located inside of the printer.

Note

- Memory capacity can be increased to 64 MB by installing two 32 MB SIMMs into the printer. (However, it will first be necessary to remove the 4 MB SIMM that comes installed in the printer.) The successful installation of the expansion memory can be confirmed by printing a Configuration Page.

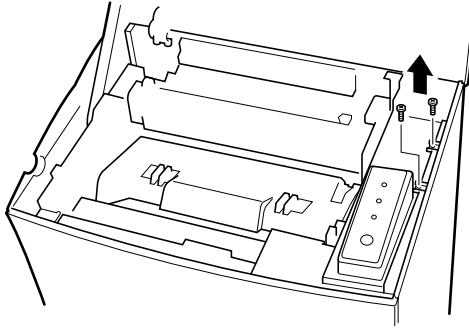
Installing the Optional SIMM

Warning

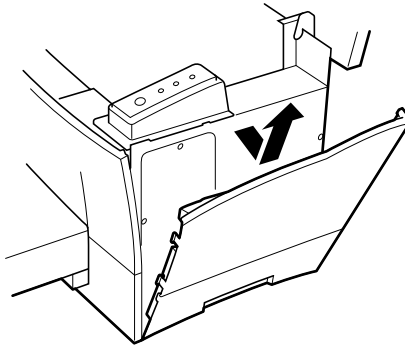
- Electric shock hazard! Do not remove any cover of the printer that is not directly specified for removal in the *User's Manual*.

- 1 Turn off the printer and unplug the power cord.
- 2 Disconnect the parallel cable from the printer.
- 3 Press the **top cover release button** and open the top cover.

- 4 Using a screwdriver, loosen and remove the two screws that secure the exterior side cover to the printer.



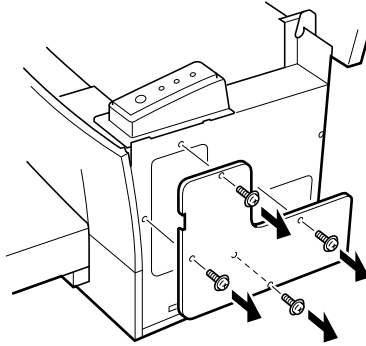
- 5 Clips secure the exterior side cover from the inside of the printer. Gently maneuver the exterior side cover until the clips release (see illustration).



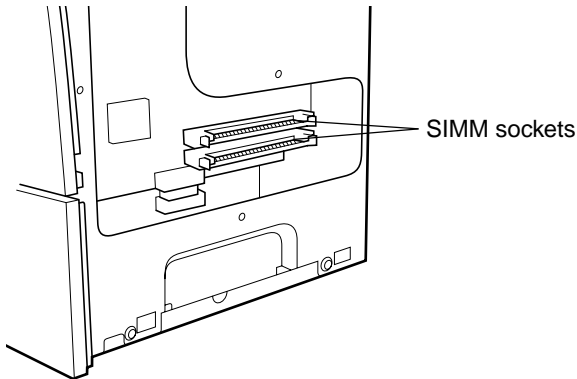
Caution

- Do not touch any part of the main circuit inside of the printer.

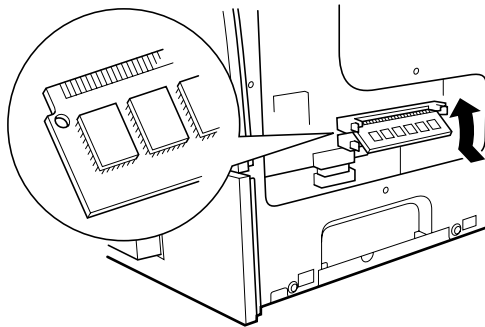
- 6 With the exterior side cover removed, the internal side cover of the printer is exposed. With the screwdriver, loosen and remove the four screws that secure the internal side cover.



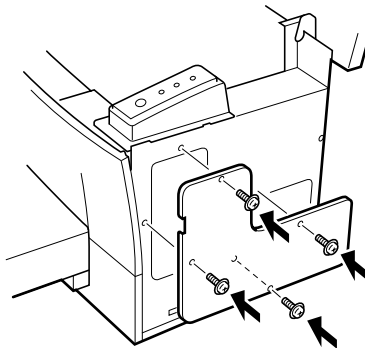
- 7 Remove the internal side cover to expose the main circuit.



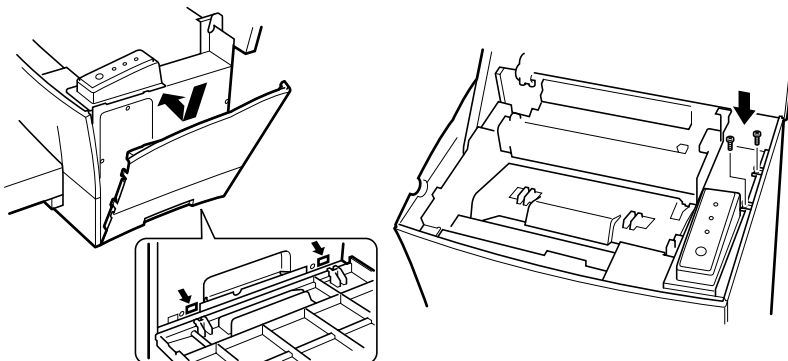
- 8 Being careful not to touch the connection points along the edge of the SIMM, insert the SIMM into one of the available sockets on the main circuit.
- Insert the SIMM at an angle as shown and gently swing it into the socket.
 - Apply pressure until the SIMM locks into place.



- 9 Replace the internal side cover using the four screws.



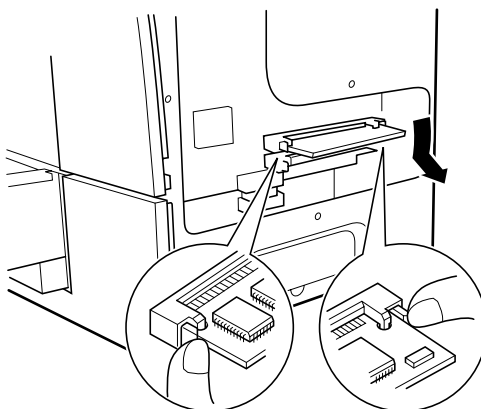
- 10** Replace the external side cover using the two screws.



- 11** Print a Configuration Page (page 2-14) and check to make sure that the “Total Memory” item correctly shows the increase in memory capacity. If it does not, repeat the above steps making sure that the SIMM is installed correctly.

Note

- To release the SIMM from the socket, push out on the taps on each side of the socket.
- After installation of the SIMM, reset the Printer Memory Setting to reflect the new memory capacity (see page 4-60).



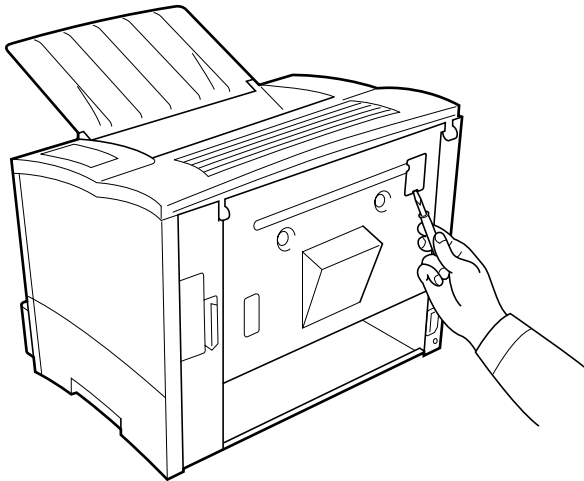
Duplex Unit

Your printer supports double-sided printing if the optional **duplex unit** is installed. Double-sided documents can be generated for binding along either the short or long edges of the paper through the printer software. For more information, refer to page 3-15.

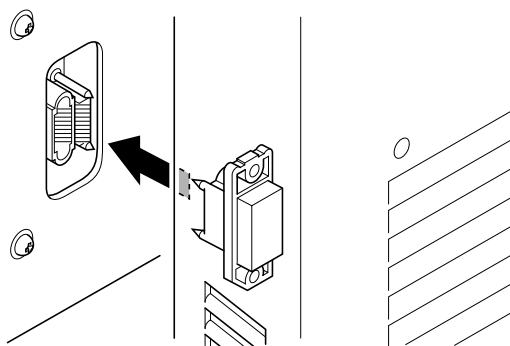
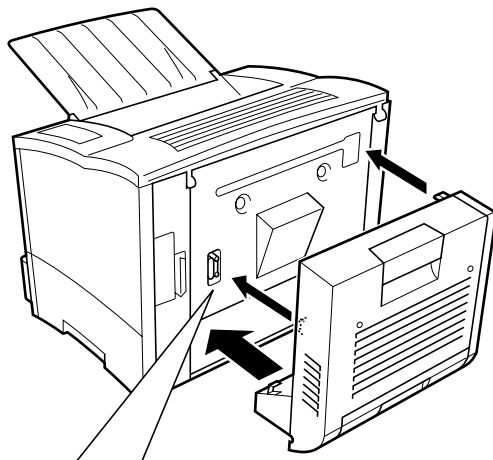
- Take the **duplex unit** out of the shipping box.
- Remove the plastic bag and all shipping materials.
- Turn the printer off and then disconnect the power cord and interface cable from the printer.

Installing the Duplex Unit

- 1 With a screwdriver or similar instrument, remove the flat clip that is attached to the back of the main unit of the printer.



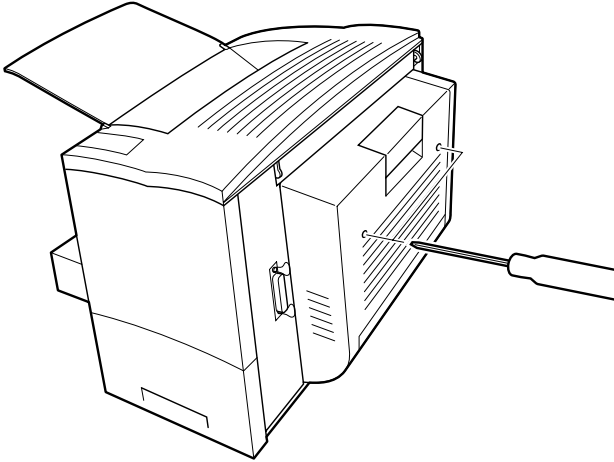
- 2 Align the “L” shaped **duplex unit** to the back of the main unit of the printer so that the bottom of the “L” is inside of the opening at the bottom of the printer.



Note

- Make sure that the connector of the unit is inserted into the printer securely.

- 3 With one hand holding the **duplex unit** in position, use a Phillips screwdriver to tighten the screws that are permanently attached to the back of the **duplex unit**.



Note

- Hold up the **duplex unit** with your hand during installation until it is secured to the printer with the screws.

- 4 Connect the power cord to the printer and then turn the printer on.
See “Connecting the Power Cord”, page 2-9.
See “Turning On the Printer”, page 2-12.
- 5 Generate a configuration page to verify that duplex unit is listed under the Printer Configuration item.
See “Testing the Printer”, page 2-13.

PRINTER CONFIGURATION

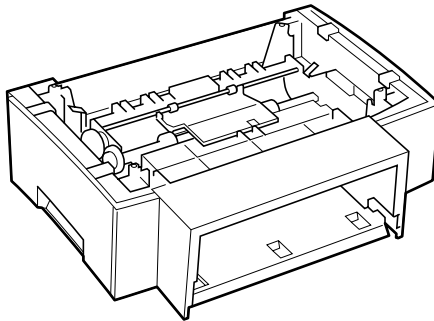
Tray 2 = Not Installed
Tray 3 = Not Installed
Duplex Unit = Installed
PostScript = Not Installed
Network Card = Not Installed

Second/Third Paper Cassette Unit

You can increase the paper-holding capacity of your printer by installing an optional **second/third paper cassette unit**. Each **paper cassette unit** can hold up to 500 sheets of paper. The **second and third paper cassette units** are interchangeable and can increase paper-holding capacity to 1,000 sheets when installed together.

Installing the Optional Second/Third Paper Cassette Unit

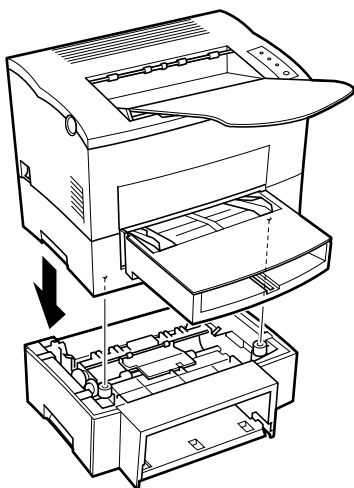
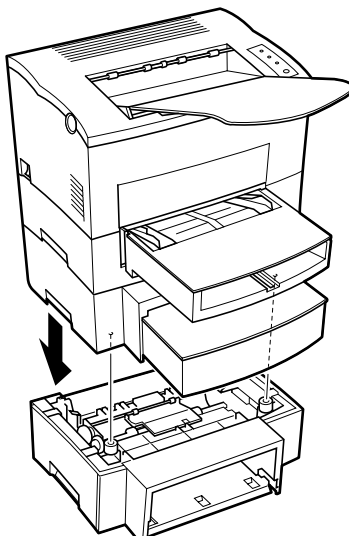
- Take the **paper cassette unit** out of the shipping box.
 - Remove the plastic bag and all shipping materials.
 - Turn the printer off and then disconnect the power cord and interface cable from the printer.
- 1** Place the **paper cassette unit** in the location you have chosen (see page 2-1 “Selecting a Location for the Printer”). Pull out the **paper tray**.



- 2 Set the printer onto the **paper cassette unit** using the coupling pins as a guide.

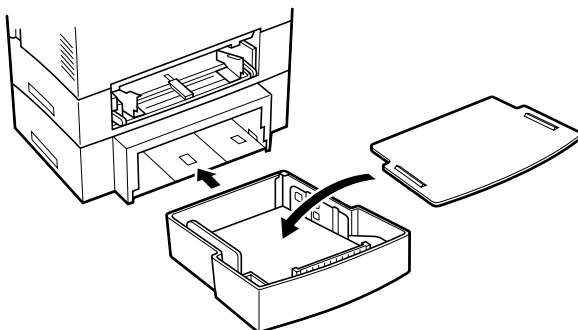
Note

- The printer weighs approximately 18 kg (39.7 lbs.). Two people are recommended to lift it when necessary.

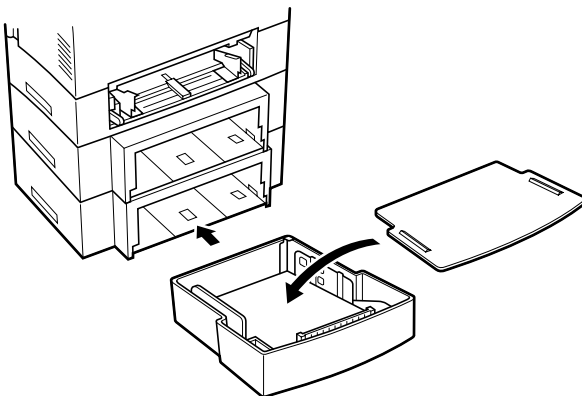
Second paper cassette unit**Third paper cassette unit**

3 Insert **Tray 2** or **Tray 3** into the **paper cassette unit**.

Tray 2

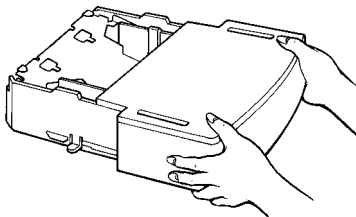


Tray 3



Note

- Be sure to use both hands whenever **Tray 2** or **Tray 3** is being removed from or inserted into the **paper cassette unit**.



-
- 4** Connect the power cord to the printer and then turn the printer on.
See “Connecting the Power Cord”, page 2-9.
See “Turning On the Printer”, page 2-12.
 - 5** Generate a configuration page to verify that Tray 2 or Tray 3 is listed under the Printer Configuration item.
See “Testing the Printer”, page 2-13.

PRINTER CONFIGURATION

Tray 2 = Installed
Tray 3 = Installed
Duplex Unit = Not Installed
PostScript = Not Installed
Network Card = Not Installed

Adobe PostScript ROM-SIMM

This printer is equipped with a socket for the installation of an Adobe PostScript ROM-SIMM. This ROM-SIMM enables the printer to support the PostScript page description language.

Warning

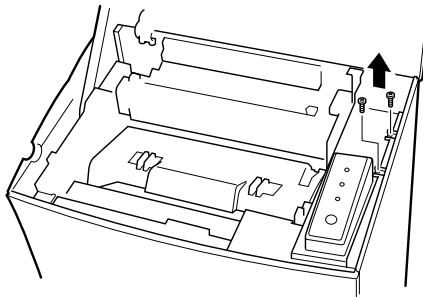
- The Adobe PostScript ROM-SIMM is easily damaged by static electricity. Touch a metal object before you touch the ROM-SIMM.
- Take the Adobe PostScript ROM-SIMM out of the shipping box.
- Turn the printer off and then disconnect the power cord and interface cable from the printer.

Installing the Optional Adobe PostScript ROM-SIMM

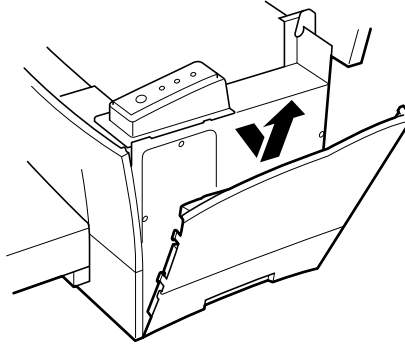
Warning

- Electric shock hazard! Do not remove any cover of the printer that is not directly specified for removal in the *User's Manual*.

- 1 Turn off the printer and unplug the power cord.
- 2 Disconnect the parallel cable from the printer.
- 3 Press the **top cover release button** and open the top cover.
- 4 Using a screwdriver, loosen and remove the two screws that secure the exterior side cover to the printer.



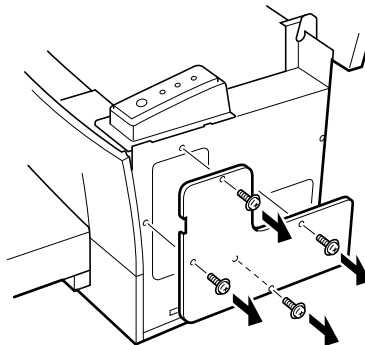
- 5 Clips secure the exterior side cover from the inside of the printer. Gently maneuver the exterior side cover until the clips release (see illustration).



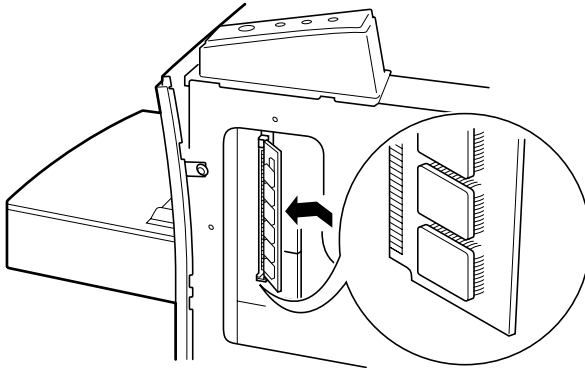
Caution

- Do not touch any part of the main circuit inside of the printer.

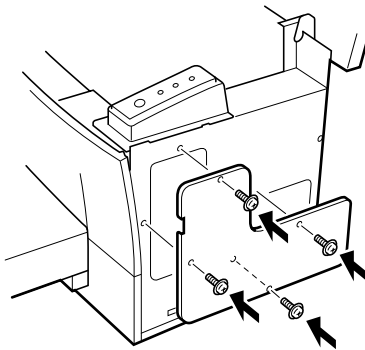
- 6 With the exterior side cover removed, the internal side cover of the printer is exposed. With the screwdriver, loosen and remove the four screws that secure the internal side cover.



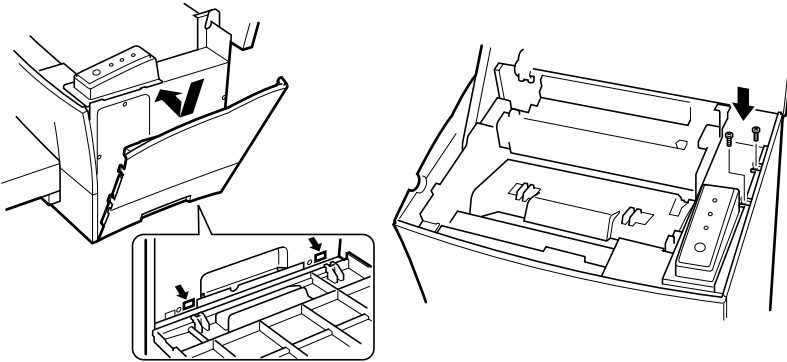
- 7 Remove the internal side cover to expose the main circuit.
- 8 Being careful not to touch the connection points along the edge of the SIMM, insert the SIMM into the socket of the main circuit.
 - Insert the SIMM at an angle as shown and gently swing it into the socket.
 - Apply pressure until the SIMM locks into place.



- 9 Replace the internal side cover using the four screws.



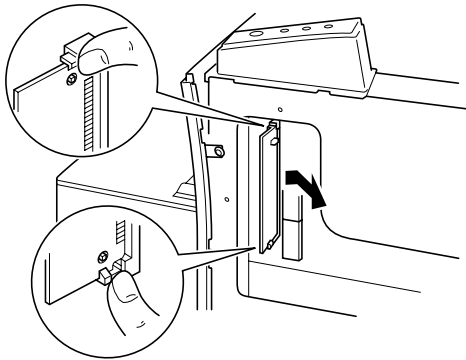
- 10** Replace the external side cover using the two screws.



- 11** Connect the power cord to the printer and then turn the printer on.
See “Connecting the Power Cord”, page 2-9.
See “Turning On the Printer”, page 2-12.
- 12** Generate a configuration page to verify that PostScript is listed under the Printer Configuration item.
See “Testing the Printer”, page 2-13.

Note

- To release the SIMM from the socket, push out on the taps on each side of the socket.



PRINTER CONFIGURATION

Tray 2 = Not Installed

Tray 3 = Not Installed

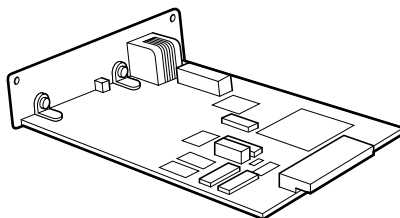
Duplex Unit = Not Installed

PostScript = Installed

Network Card = Not Installed

Network Interface Card (NIC)

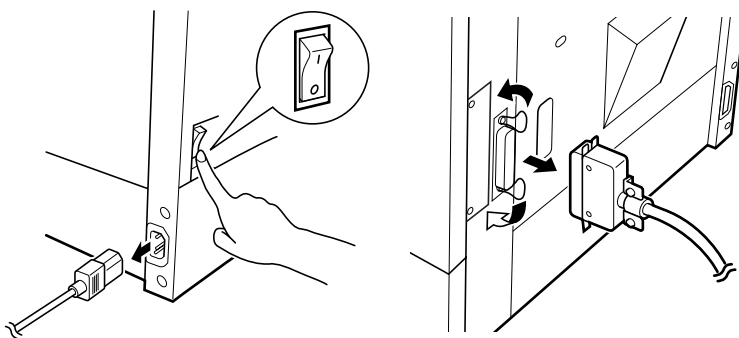
There are two optional network interface cards that are supported by this printer: **10/100BaseT** and **10Base2**. The NIC option that you select should be determined according to the requirements of your network environment. For details, please see the *User's Manual* for the *Network Interface Card*.



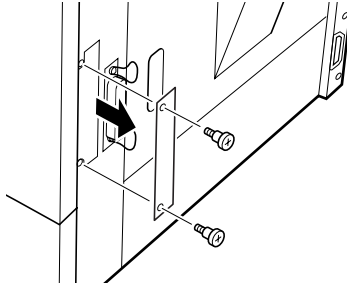
* This illustration shows the optional 10/100BaseT Network Interface Card.

Installing the Optional Network Interface Card

- 1 Turn the printer off and unplug the power cord from the printer. Disconnect the cable from the interface connector.



- 2 Remove the screw that secures the cover panel to the back of the printer. Remove the cover panel.



Note

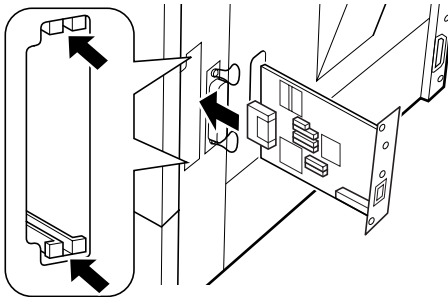
- Make sure that you do not misplace the cover panel or screws when you remove them. The screws will be used after the optional NIC is installed.

- 3 Take the NIC out of its carton.

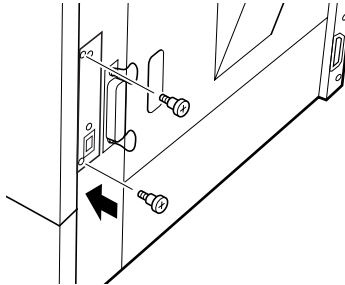
Note

- When the NIC is taken out of its conductive bag or off its mat, hold it by its edges to avoid touching the terminals or the patterned surfaces.

- 4 Insert the NIC as shown in the diagram.



- 5 Secure the NIC into place using the same screws that were used to hold the cover panel.



Note

- Follow the NIC's installation procedure in reverse to remove the NIC.

- 6 Connect the power cord to the printer and then turn the printer on.
See "Connecting the Power Cord", page 2-9.
See "Turning On the Printer", page 2-12.
- 7 Generate a configuration page to verify that Network Card is listed under the Printer Configuration item.
See "Testing the Printer", page 2-13.

PRINTER CONFIGURATION

Tray 2 = Not Installed
Tray 3 = Not Installed
Duplex Unit = Not Installed
PostScript = Not Installed
Network Card = Installed

Chapter

Using the Printer

3

Paper

Caution

- This printer is designed to print on only the following types of paper.

Type

Paper Feeding Port	Plain Paper weighing: 60 to 90 g/m ² 16 to 24 lbs.	Special Paper						
		Recycled Paper weighing: 60 to 90 g/m ² 16 to 24 lbs.	Transparency Sheet	Labels	Letter-head	Envelopes	J-Post (Postcard) size: 100 × 148 mm 4" × 5-3/4"	Thick Paper weighing: 90 to 163 g/m ² 24 to 43 lbs.
Tray 1	○	○	○	○	○	○	○	○
Tray 2	○	○	None	None	None	None	None	None
Tray 3	○	○	None	None	None	None	None	None
Manual Feed Tray	○	○	○	○	○	○	○	○

Size

Standard size

Paper Feeding Port	A4 210 × 297 mm 8-1/4" × 11-3/4"	JIS B5 182 × 257 mm 7-1/4" × 10"	Legal 216 × 356 mm 8-1/2" × 14"	Letter 216 × 279 mm 8-1/2" × 11"	Executive 184 × 267 mm 7-1/4" × 10-1/2"
Tray 1	○	○	○	○	○
Tray 2*	○	○	○	○	○
Tray 3*	○	○	○	○	○
Manual Feed Tray	○	○	○	○	○

* Each of the five cassettes of Tray 2/Tray 3 support one of the five types of paper that are compatible with this printer.

Envelopes and custom sizes (Tray 1 and Manual Feed Tray)

Paper Feeding Port	Env. Com10 105 × 241mm 4-1/8" × 9-1/2"	Env. DL 110 × 220mm 4-5/16" × 8-11/16"	Env. C5 162 × 229mm 6-3/8" × 9"	Env. B5 176 × 250mm 6-15/16" × 9-7/8"	Env. Monarch 98 × 190mm 3-7/8"×7-1/2"	Custom 86 to 216 × 148 to 356 mm 3-3/8" to 8-1/2" × 3-1/2" to 14"
Tray 1	○	○	○	○	○	○**
Manual Feed Tray	○	○	○	○	○	○

** Printing is possible only if **Tray1 Setting** on the **Paper** tab of the Printer Control Panel dialog is set to **Multiple Size**. (See pages 4-56 and 5-7).

- Specialty paper is not supported for duplex printing.

Note

- Do not use the following types of paper to avoid reduced print quality, a misfeed or a print failure.
 - ✓ Paper already used in a thermal transfer printer or ink jet printer.
 - ✓ Paper that is too thin or too thick.
 - ✓ Paper folded, curled or torn.
 - ✓ Paper having binding holes or perforations.
 - ✓ Paper with surfaces that are too smooth or too rough or with varying surfaces.
 - ✓ Paper having special coatings on their surfaces such as carbon paper, heat-sensitive paper and pressure-sensitive paper.
 - ✓ Sheets of various sizes.
 - ✓ Paper not cut on right angles.
 - ✓ Paper bound by glue, staples or clips.
 - ✓ Paper affixed with labels which are easy to peel.
 - ✓ Post cards that are warped or bent.
- Envelopes should meet the following requirements:
 - ✓ Sharp folds and edges.
 - ✓ General mailing envelopes without seals on the glued portion.
 - ✓ Having flaps the full width of the envelope (unacceptable if the flap is glued).
 - ✓ Wrinkle-free, no fasteners.
- Generally, envelopes perform well, but some types may wrinkle. We strongly recommend testing any type of envelope before buying it in large amounts.
- For more information, refer to “Loading Paper”.

Loading Paper

There are two primary sources that can be used to feed paper into the printer: **Tray 1** and the **manual feed tray**.

Tray 1 is the standard source for supplying paper to the printer. Various types and sizes of paper can be fed from this tray.

Tray 2/Tray 3 are available as optional paper sources. See the section of this *User's Manual* entitled "Loading Paper onto Tray 2/Tray 3" for details on using these trays.

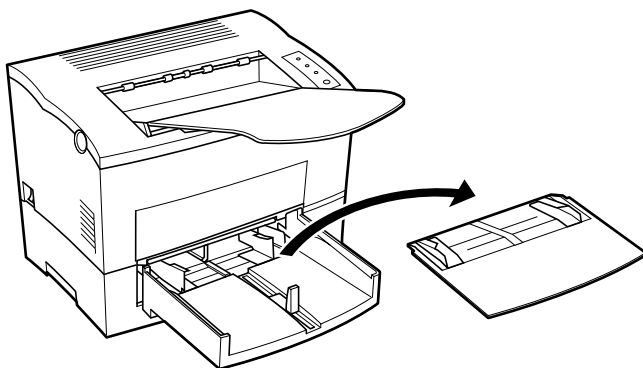
Whenever you are using special size paper, be sure to use the printer driver installed on the computer to specify the printing area. You may experience some variation in print quality when using special size paper.

Always remember that paper storage conditions greatly affect print quality. Store paper in its original package. Keep paper out of areas subject to extreme temperatures or humidity.

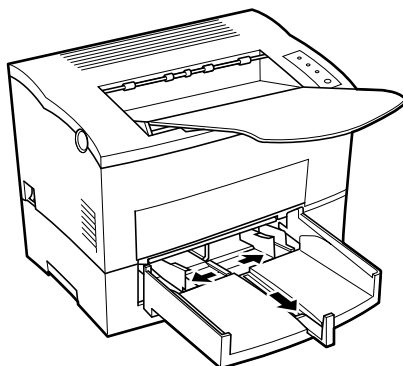
Loading Paper onto Tray 1

You can load up to 250 sheets of standard paper onto **Tray 1**. See page 3-1 for details on paper sizes and types.

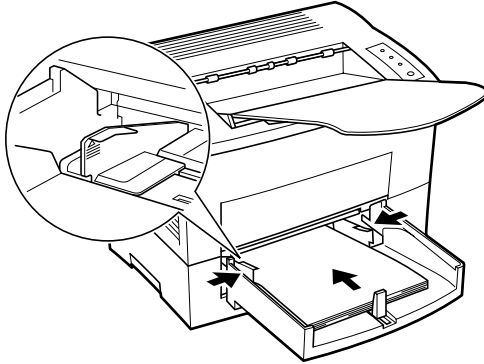
- 1 Remove the **tray cover** from **Tray 1**.



- 2 Open the **paper size guides**.



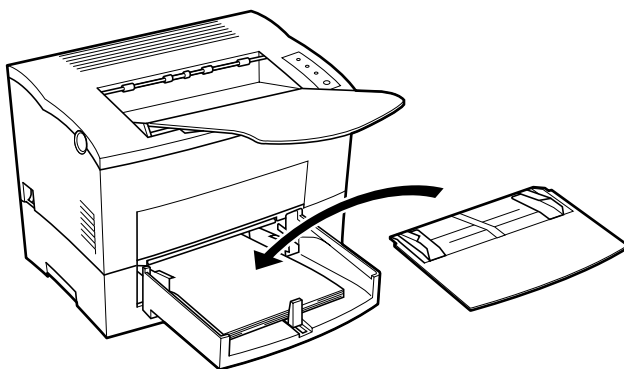
- 3 Place a stack of paper in the center of **Tray 1**. Adjust the **paper size guides** so that both the left and the right sides of the paper stack are secure.



Note

- A maximum level mark on the **paper size guide** shows how high you can stack paper on **Tray 1**. Make sure that paper is stacked no higher than this mark.
- Do not load additional paper until the paper currently loaded onto **Tray 1** is completely used.
- See pages 4-56 and 5-7 for details on making settings for **Tray 1**.

- 4 Replace the **tray cover** onto **Tray 1**.



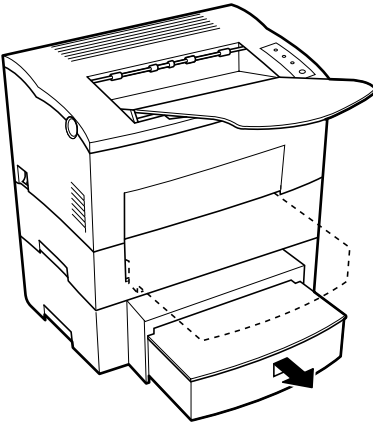
Loading Paper onto Tray 2/Tray 3

Note

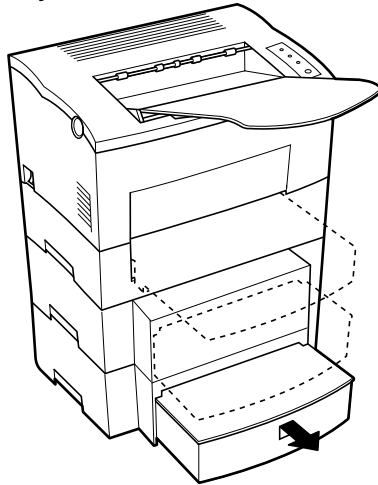
- Make sure that the **Tray 2/Tray 3 cassette** for the proper size of paper to be used for printing has been installed into the **second/third paper cassette unit**. For instructions on inserting (and removing) the **Tray 2/Tray 3 cassette** into (and from) the **second/third paper cassette unit**, refer to Chapter 2.

- Slide **Tray 2/Tray 3** out of the **second/third paper cassette unit** as illustrated.

Tray 2



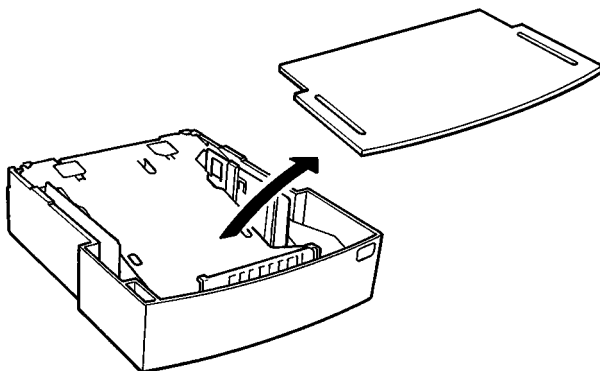
Tray 3



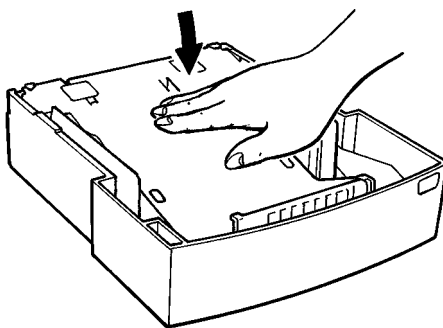
Note

- The cassette is designed to remain in the unit during the normal loading and operation of the printer. To remove **Tray 2/Tray 3** from the unit, pull it out as far as it will go without force. Then gently raise the forward-end up, and remove **Tray 2/Tray 3** from the unit.
- Tray 2** and **Tray 3** are available as an option for this printer. Contact Minolta Technical Support to find out how you can acquire this tray to increase the capabilities of your printer.

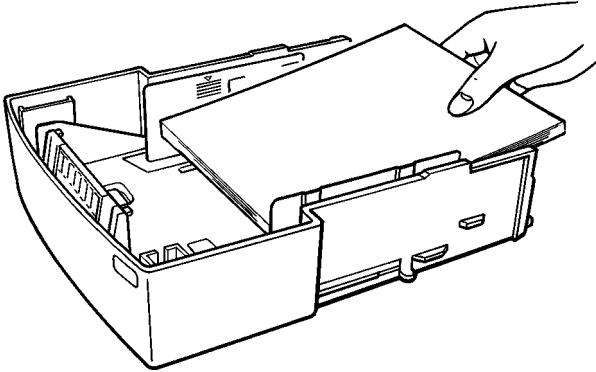
- 2** Remove the **cassette cover** from **Tray 2/Tray 3**.



- 3** Press down on the paper lifting plate located inside of **Tray 2/Tray 3** until it locks.

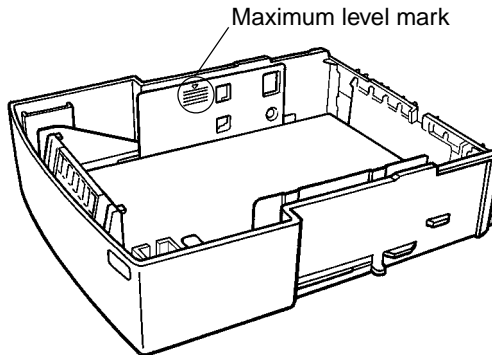


- 4 Place a stack of up to 500 sheets of paper into **Tray 2/Tray 3** so that the side that was facing up when the paper was unwrapped is still facing up.



Note

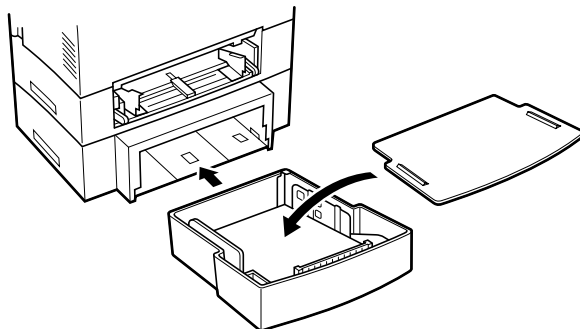
- A maximum level mark inside the inlet of **Tray 2/Tray 3** shows how high you can stack paper. Make sure that paper is stacked no higher than this mark.



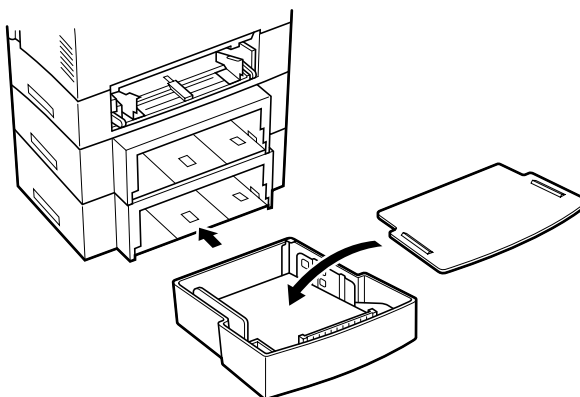
- **Tray 2/Tray 3** does not support landscape-oriented paper-feeding.
- Do not load additional paper until all the paper currently on **Tray 2/Tray 3** is completely used up.

- 5** Replace the **cassette cover** and insert **Tray 2/Tray 3** into the **second/third paper cassette unit**.

Tray 2

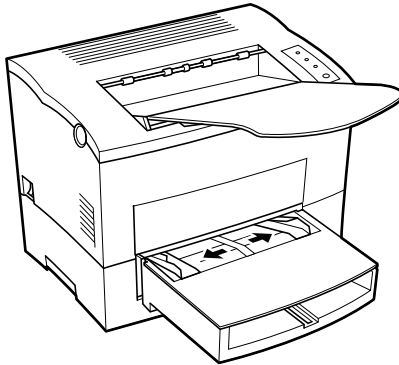


Tray 3

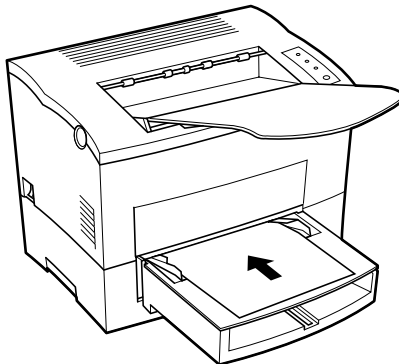


Manual Paper Feed

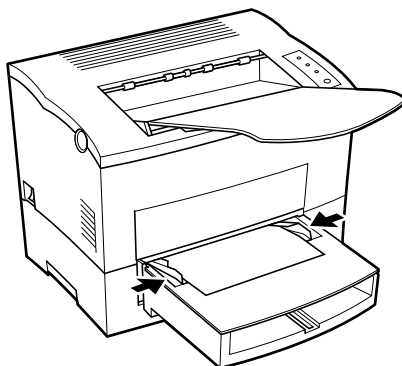
- 1 Make sure that the **tray cover** is properly attached to **Tray 1**.
- 2 Open the **paper size guides**.



- 3 Insert the sheet of paper into the **manual feed tray** with the side to be printed facing up.



- 4 Adjust the **paper size guides** so that both sides of the paper are secure.



Note

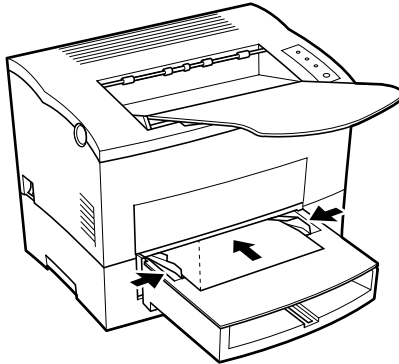
- Insert only one sheet of paper or one envelope at a time when feeding manually.

Printing on Envelopes

The **manual feed tray** supports feeds of Commercial 10, Monarch, DL, C5, and B5 envelopes.

Manually feed envelopes one by one into the **manual feed tray**.

- 1 Place the envelope with the side to be printed facing up on the tray. The flap of the envelope should be facing down and to the left.
- 2 Make sure that the envelope is placed in the center of the tray and that it is secured by the **paper size guides**.



Note

- Because there is great variation in the quality of paper used for envelopes, we suggest that you produce test prints of various types before purchasing any envelope in large quantities for use with this printer.

Note the following points whenever printing on envelopes.

- Make sure that all edges are creased sharply and that all flaps are folded correctly.

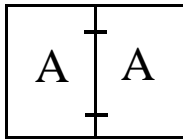
- Do not use envelopes that are self-adhesive. Use only envelopes that have standard sealing that sticks after it is moistened.
- Use envelopes of which flaps run the entire length of the envelope. Envelopes that seal at one end will not feed properly.
- Do not use envelopes that have a window. Such envelopes can seriously damage the printer.
- Do not use envelopes that are wrinkled.
- Never use envelopes that have clasps or any other type of fastener that can damage the printer.
- Do not store envelopes in an area that is subject to high humidity.

Duplex Printing

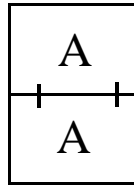
This feature prints document data on both sides of a sheet of paper. Installation of the optional **duplex unit** is required to perform duplex printing.

You can choose either Bind Long Edge or Bind Short Edge when generating duplex documents.

(1) Bind Long Edge

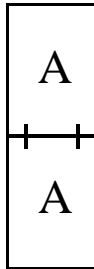


Portrait

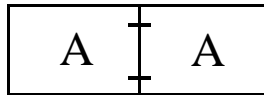


Landscape

(2) Bind Short Edge



Portrait



Landscape

The supported paper types and sizes for duplex printing are as follows.

Paper Type

Plain paper: 64 to 90 g/m² (17 to 24 lb)

Recycled paper: 64 to 90 g/m² (17 to 24 lb)

Note

- Do not use special paper (transparencies, labels, envelopes, letterhead, J-Post and thick paper) for duplex printing.

Paper Size

A4, A5, JIS B5, Letter, Legal, Executive.

Note

- The Long Edge Binding setting of the printer driver cannot be used to print duplex documents on custom size paper.

Remember the following points when generating duplex documents:

- The size of both original documents that will be used to make one duplex document must be the same.
- The original document that is loaded first into the **duplex unit** will be output face down.

Chapter
Printer Driver

4

Introduction

This printer driver was especially designed to provide true Windows-based and DOS printing for your Minolta printer. The driver consists of three programs: the printer status display, the control panel and the driver itself.

Important!

- This printer driver is located on the CD-ROM that comes with your printer. If your computer does not have a CD-ROM drive or you wish to download the updated printer driver, it can be downloaded from the Minolta Web site at <http://www.minoltaprinters.com>.

System Requirements

The following describes the minimum system requirements for running the Minolta PageWorks/Pro 18/18N printer driver.

Operating System: Microsoft Windows 95, Windows 98, Windows 3.1x, Windows NT 4.0 or MS-DOS

Personal Computer: IBM-compatible PC with at least a 486DX 16MHz CPU (Pentium processor recommended)

CD-ROM drive

I/O Interface: IEEE 1284 type-B parallel cable

Memory: At least 8MB of PC RAM

Free Disk Space: Approximately 5MB for files

Note

- Use of a poor quality parallel cable may adversely affect input.

Installing the Printer Driver Under Windows 95/98

This section provides information on installing the printer driver under Windows 95/98. It also tells you how to uninstall the printer driver when necessary.

We recommend that the printer driver be installed using the CD-ROM's installer. If the driver is installed using plug-and-play, the **Driver** directory on the CD-ROM must be specified.

Note

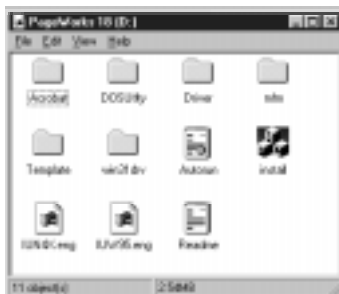
- When the printer driver is installed using plug-and-play, the Status Display, the Control Panel, the uninstall.exe file, and the Driver Help will not be installed.

To Install the Printer Driver Using the Installer (Auto Run)

- 1 Turn on your computer and start up Windows 95 or Windows 98.
- 2 Insert the **Printer Driver** CD-ROM into your computer's CD-ROM drive.
- 3 The opening screen is automatically displayed. Click on the **PCL Driver** menu to start the installer.

Note

- The configuration of some computers may prevent the opening screen from appearing automatically. If the screen does not appear, double-click **Install.exe** from the CD-ROM.

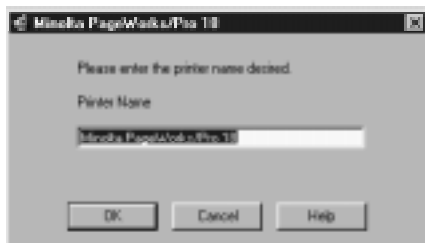


- The printer driver must be installed using the CD-ROM's installer. Do not use the Add Printer wizard from the Printers folder. Installation through the Add Printer wizard will prevent the printer from performing properly.

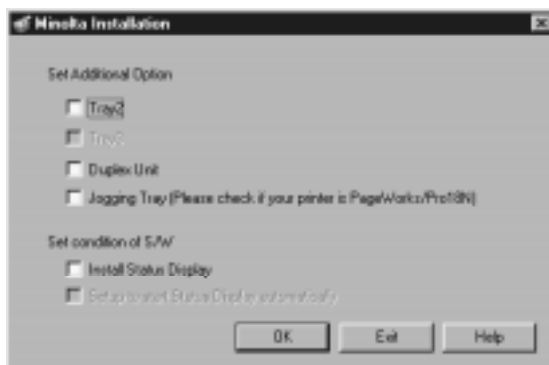
- 4 Follow the instructions that appear on your computer screen to complete the installation.



- 5 When the following dialog appears, you can assign a name to the printer. When the name is as you want it, click **OK**.



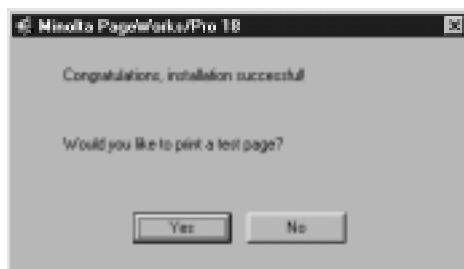
- 6 When the following dialog appears, check the option(s) that are installed onto your printer. If you want to install the status display, check the “Install Status Display” box. Then click **OK** to display the next step.



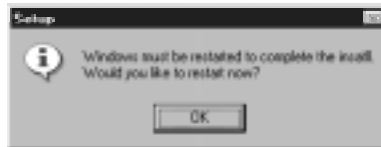
Note

- This printer does not support **jogging tray** compatibility. Do not check **Jogging Tray** in this dialog.

- 7 After the installation is completed, the following dialog appears. Printing a test page is recommended to confirm that the printer driver is correctly installed on your computer.



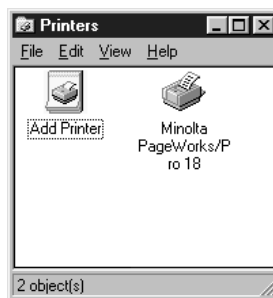
- 8 A message suggesting that you restart the computer will appear. Close any applications that are currently active on your desktop and click **OK** to restart the computer.



- 9 The following dialog appears on the desktop of the computer.



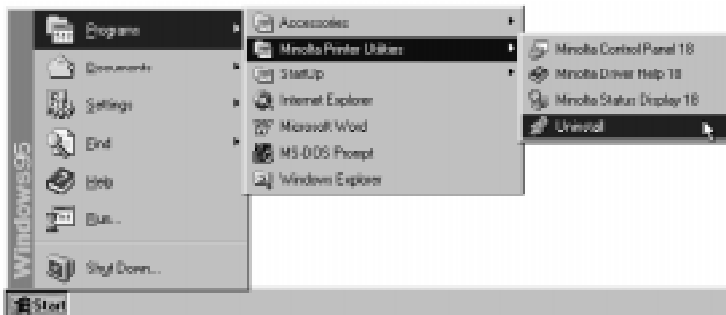
- 10 Make sure that the **Minolta PageWorks/Pro 18** printer icon is displayed in the Printers dialog. Click **Start**, point to **Settings**, and then click **Printers** to display the Printers dialog.



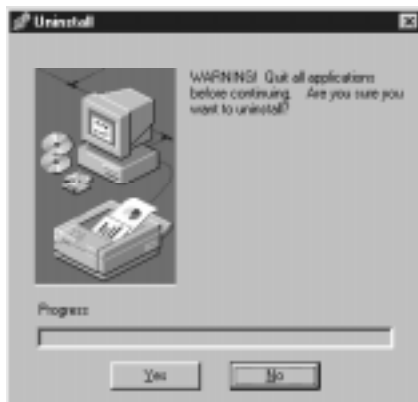
This completes the installation of the printer driver.

To Uninstall the Printer Driver

- 1 Click the **Start** button, point to **Programs**, **Minolta Printer Utilities**, and then click **Uninstall**.



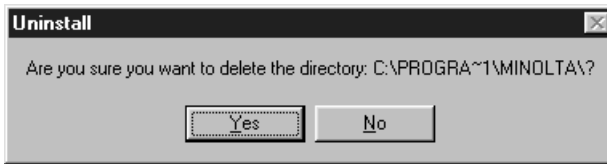
- 2 Click **Yes** to proceed with the uninstall operation or **No** to abort.



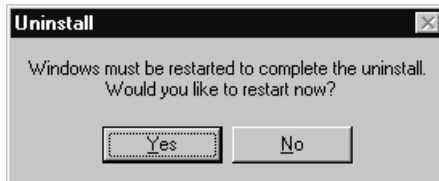
Note

- This uninstall operation will delete all of the printer driver(s) that are currently installed in the Minolta Printer Utilities group.

- 3 Click **Yes** to delete the directory that contains the Minolta Printer Utilities program.



- 4 In the next dialog that appears, click **Yes** to restart the computer.



Installing the Printer Driver Under Windows NT 4.0

This section provides information on installing the printer driver on a computer running Windows NT 4.0. It also tells you how to uninstall the printer driver when necessary.

To Install the Printer Driver Using the Installer (Auto Run)

- 1 Turn on your computer and start up Windows NT 4.0.
- 2 Insert the **Printer Driver** CD-ROM into your computer's CD-ROM drive.
 - In this example, we will assume that **D:** is the name of the CD-ROM drive.
- 3 The opening screen is automatically displayed. Click on the **PCL Driver** menu to start the installer.

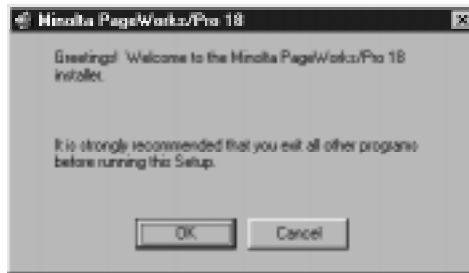
Note

- The configuration of some computers may prevent the opening screen from appearing automatically. If the screen does not appear, double-click **Install.exe** from the CD-ROM.

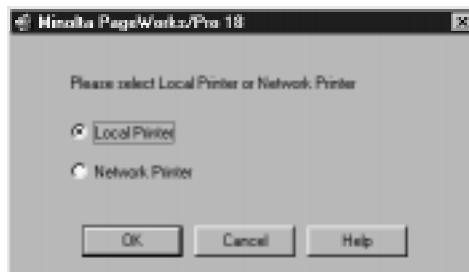


- The printer driver must be installed using the CD-ROM's installer. Do not use the Add Printer wizard from the Printers folder.

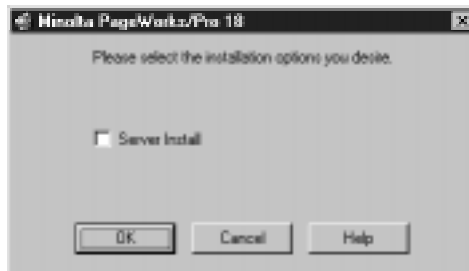
- 4 Follow the instructions that appear on your computer screen to complete the installation.



- 5 Select **Local Printer**.



- 6 Click the **OK** button to display the next dialog.
- 7 Select the installation options.



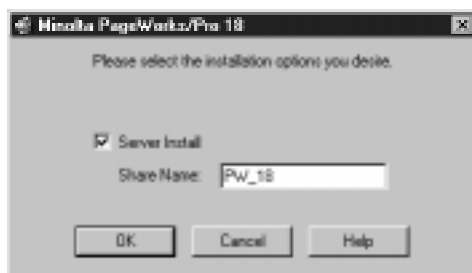
- 8** If the computer onto which you are installing the driver is a print server, check the **Server Install** checkbox.

Note

- If your printer is connected to a Network, we recommend consulting your network administrator and referring to the Network Interface Card Manual.

- 9** If you plan to use the printer as a network printer, type in a name for **Share Name**.

Example: PW_18

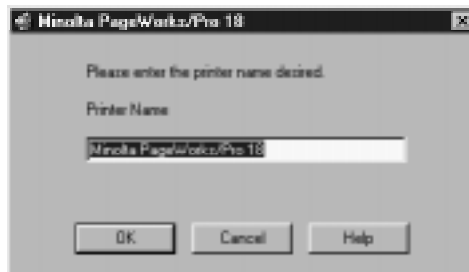


Note

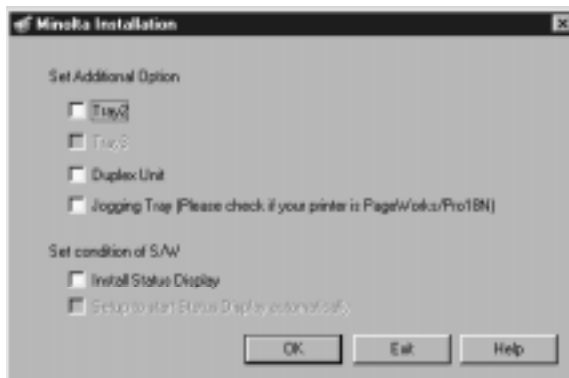
- Skip step 9 if you did not check the **Server Install** option in step 8 above.

- 10** Click **OK** to display the next dialog.

- 11 When the following dialog appears, you can assign a name to the printer. When the name is as you want it, click **OK**.



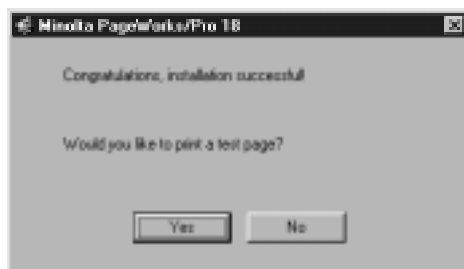
- 12 When the following dialog appears, check the option(s) that are installed onto your printer. If you want to install the status display, check the “Install Status Display” box. Then click **OK** to display the next step.



Note

- This printer does not support **jogging tray** compatibility. Do not check **Jogging Tray** in this dialog.

- 13** After the installation is completed, the following dialog appears. Printing a test page is recommended to confirm that the printer driver is correctly installed on your computer.



- 14** The following dialog appears on the desktop of the computer.



- 15** In the installer menu window, click **Quit** to close the window.

- 16** Make sure that the **Minolta PageWorks/Pro 18** printer icon is displayed in the Printers dialog. Click **Start**, point to **Settings**, and then click **Printers** to display the Printers dialog.



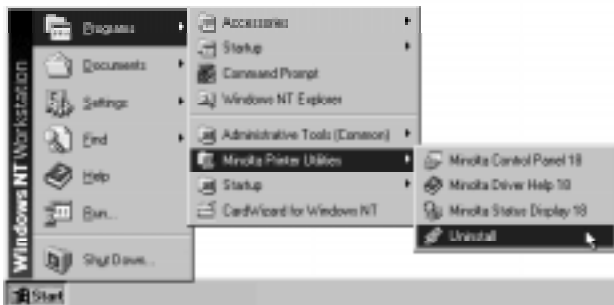
This completes the installation of the printer driver.

Note

- The **Additional Options** dialog does not appear when the printer is designated as a “**Network Printer**” in the second dialog of the installation procedure.
- The printer driver must be installed using the CD-ROM’s installer. Do not use the Add Printer wizard from the Printers folder.

To Uninstall the Printer Driver

- 1 Click the **Start** button, point to **Programs**, **Minolta Printer Utilities**, and then click **Uninstall**.



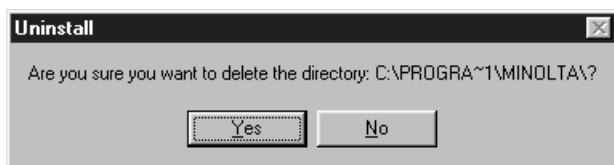
- 2 Click **Yes** to proceed with the uninstall operation or **No** to abort.



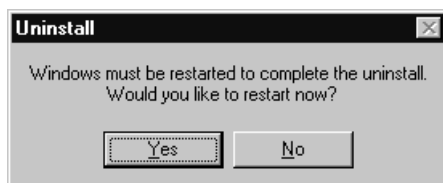
Note

- This uninstall operation will delete all of the printer driver(s) that are currently installed in the Minolta Printer Utilities group.

- 3 Click **Yes** to delete the directory that contains the Minolta Printer Utilities program.



- 4 In the next dialog that appears, click **Yes** to restart the computer.

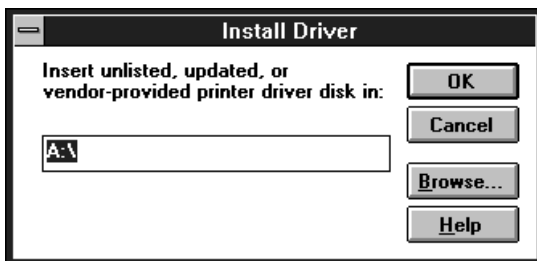


Installing the Printer Driver Under Windows 3.1

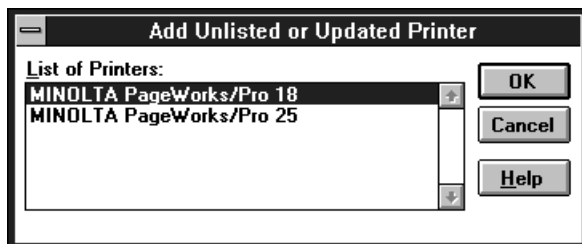
This section provides information on installing the printer driver on a computer running Windows 3.1. It also tells you how to uninstall the printer driver when necessary.

To Install the Printer Driver

- 1 Turn on your computer and start up Windows 3.1.
- 2 Insert the **Printer Driver** CD-ROM into your computer's CD-ROM drive.
 - In this example, we will assume that **D:** is the name of the CD-ROM drive.
- 3 Double-click the **Control Panel** icon which is located in the **Main** group within the **Program Manager**.
- 4 In the Control Panel dialog, double-click **Printers** to display the Printers dialog box and then click the **Add>>** button to display the list of printers.
- 5 Select **Install Unlisted or Updated Printer** and click the **Install...** button.
- 6 In the Install Driver dialog box, click the **Browse...** button.



- 7 Browse to the CD-ROM drive and navigate to: **win31drv**.
- 8 Click **OK** in the Install Driver dialog box.
- 9 From the List of Printers box, select **Minolta PageWorks/Pro 18**, and then click **OK** to start installation and return to the Printers dialog box.

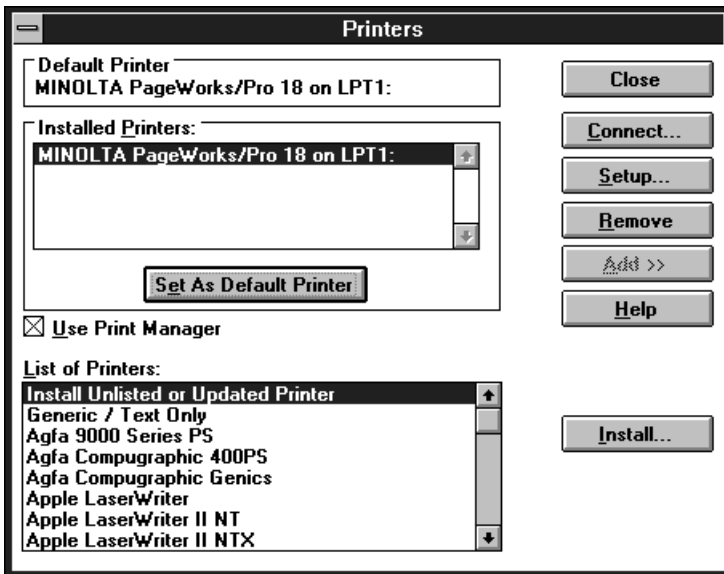


Note

- An error message may appear during installation of the printer driver informing you that a required UNIDRV.DLL file cannot be found. Should this occur, install a UniTool Driver such as HP LaserJet from the **List of Printers** box in the **Printers** dialog. After installing the UniTool Driver, reinstall the driver for the PageWorks/Pro 18.

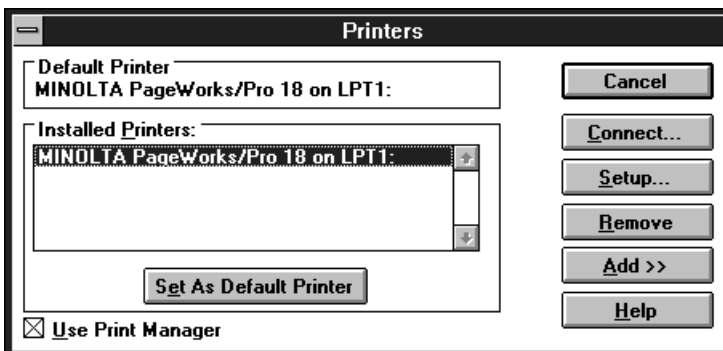
- 10 Click the **Set As Default Printer** button so that this printer is selected whenever you begin using your Windows software.

11 Click **Close** to finish the installation procedure.

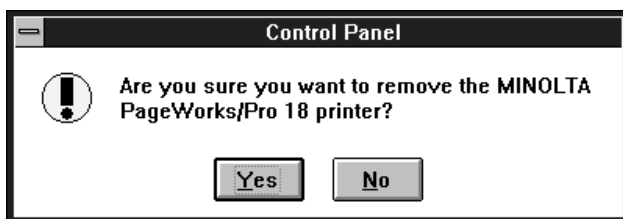


To Uninstall the Printer Driver

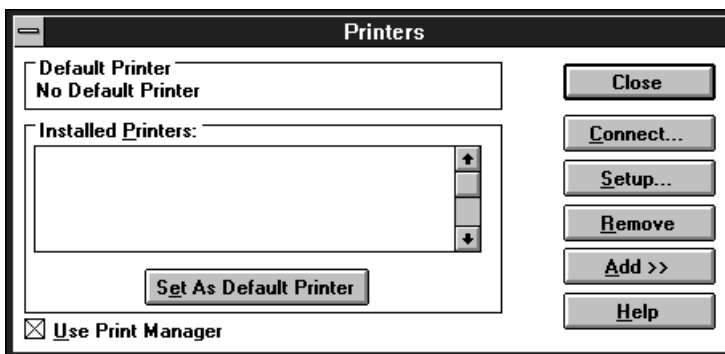
- 1 Turn on the computer and open Windows 3.1.
- 2 Go to the Program Manager and double-click **Main** to display the Main group, then double-click **Control Panel** to display the Control Panel dialog.
- 3 Double click **Printers** to display the Printers dialog box.
- 4 Select **MINOLTA PageWorks/Pro 18** from the Installed Printers menu and click **Remove**. A confirmation message will appear to confirm your selection.



- 5 Click **Yes** to remove the printer driver. The Printers dialog box reappears after the printer driver is removed.



- 6 Click **Close** to close the Printers dialog box.



Displaying the Driver Setup Dialog (Windows 95/98/NT 4.0)

Use the following procedure to display the driver setup dialog under Windows 95, Windows 98 or Windows NT 4.0.

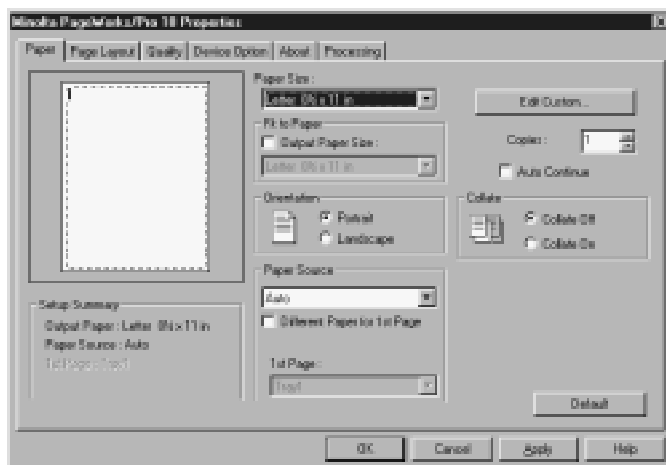
To Display the Driver Setup Dialog Under Windows 95/98

- 1 Click **Start**, point to **Settings**, and then click **Printers** to display the Printers dialog.
- 2 In the Printers dialog, click the **Minolta PageWorks/Pro 18** icon.



- 3 In the Printers dialog, select **Properties** from the **File** menu.

- 4 On the → **32-bit SuperDriver Setup** tab of the Properties dialog, the following window appears.



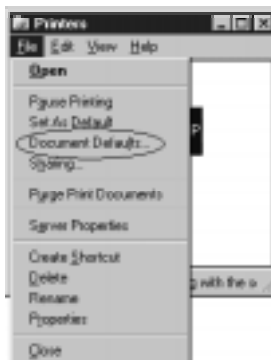
- 5 See “Using the Printer Driver Under Windows 95/98/NT 4.0” on page 4-25 to enter driver settings.

To Display the Driver Setup Dialog Under Windows NT 4.0

- 1 Click **Start**, point to **Settings**, and then click **Printers** to display the Printers dialog.
- 2 In the Printers dialog, click the **Minolta PageWorks/Pro 18** icon.



- 3 In the Printers dialog, select **Document Defaults...** from the **File** menu.



Displaying the Driver Setup Dialog (Windows 95/98/NT 4.0)

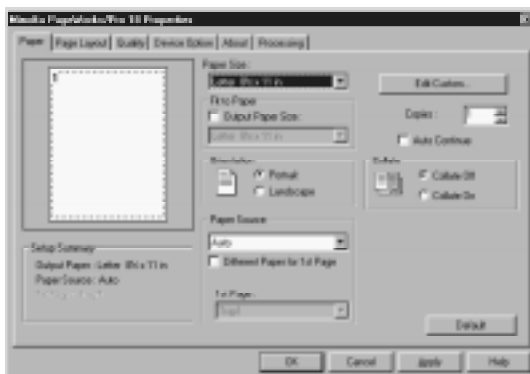
- 4 The following window appears. See “Using the Printer Driver Under Windows 95/98/NT 4.0” on page 4-25 to enter driver settings.



Using the Printer Driver Under Windows 95/98/NT 4.0

The features of the printer driver allow you to control a wide variety of printer parameters from your computer. The following sections provide an overview of the printer driver's properties.

The settings that are specified in the Properties dialog will become the default settings for the printer driver. The dialog is opened from the Windows 95/98/NT 4.0 **Printers** folder.



Note

- The screen images that appear in this section show the printer driver operating in a Windows 95-based environment.

Common Buttons

The following buttons appear at the bottom of each tab.

OK

Click to exit the properties dialog, saving any changes made.

Cancel

Click to exit the properties dialog without saving any changes made.

Apply

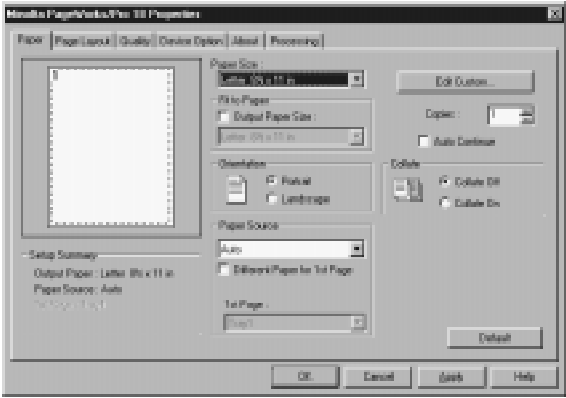
Click to save all changes without exiting the properties dialog.

Help

Click to view online help.

Paper

The **Paper** tab contains functions that effect the format and output of your printed documents.



Paper Size

The various sizes of paper that are supported by your printer are displayed in the drop-down list. Select the appropriate size or add a custom size (see *Edit Custom...*).

Paper

Letter	8 1/2 × 11 inches
Legal	8 1/2 × 14 inches
Executive	7 1/4 × 10 1/2 inches
A4	210 × 297 mm
A5	148 × 210 mm
JIS B5	182 × 257 mm
Custom	*

* See the following section for details regarding custom paper sizes.

Envelopes

COM10	4 1/8 × 9 1/2 inches
DL	110 × 220 mm
C5	162 × 229 mm
B5	176 × 250 mm
Monarch	3 7/8 × 7 1/2 inches

Edit Custom...

Click this button to open a dialog that allows you to modify your printer to support custom paper sizes.

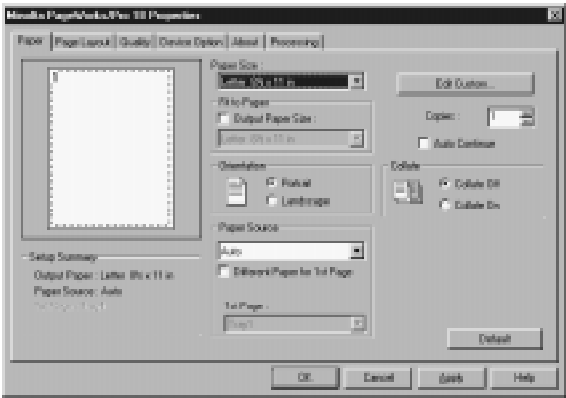
Minimum and maximum dimensions for custom paper

3 1/2 to 8 1/2 × 6 to 14 inches (88.0 to 216.0 × 152.0 to 356.0 mm)



To add a custom paper size, click the **Add** button. An entry will be made into the list above the **Add** button.

Enter the name of the custom size into the **Name** field. Next, enter the dimensions for width and height into the appropriate boxes. Be sure to specify either inches or centimeters and click **OK**. The custom size will be added to the **Paper Size** drop-down list.



Fit to Paper

Check the **Output Paper Size** box to automatically size your document to the space available relative to the selected paper size. Be sure to specify the size of the paper used for printing in the drop-down list.

Note

- The **Fit to Paper** feature cannot be used when printing **N-up** documents.

Copies

This item specifies the number of copies to be printed. You can specify any value from 1 to 999.

Auto Continue

When Auto Continue is on, the printer automatically resumes printing after most errors. When it is off, the printer waits for you to press the printer button on the front of the printer before it resumes printing.

Orientation

This setting allows you to determine how your document is positioned on the printed page (see Portrait and Landscape).

Portrait

Portrait documents are printed lengthwise (vertically), relative to the page.

Landscape

Landscape documents are printed widthwise (horizontally), relative to the page.

Collate

The Collate feature supports multi-document printing (when the number of copies being output is two or more). The **Off** setting is a group mode (1,1,1...2,2,2...3,3,3). When the Collate setting is **On**, documents are sorted as they are output (1,2,3...1,2,3...1,2,3).

Note

- Make sure that the Collate function of other applications is set to off.

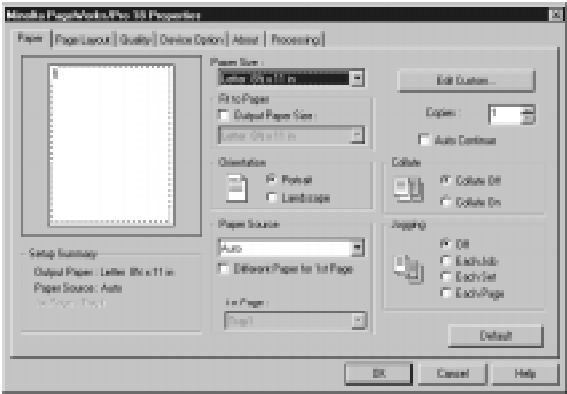
Paper Source

The **Paper Source** item specifies the tray from which paper is fed from the printer. To change this setting, just select the desired paper source from the drop-down list. If the desired tray is an option and does not appear as a paper source, make sure that it has been added in the **Device Option** tab.

You can specify to print the first of a multi-page document from a tray separate from the rest of the document. To specify a first page from a separate tray, check the **Different paper for 1st page** box and select the desired tray from the **1st Page** drop-down list.

Note

- When **Paper Source** is set to Tray1, the paper size set in the printer driver must match the **Tray1 Paper Size** in the **Tray1 Setting** of the Control Panel, otherwise a Size Mismatch error will occur. See “Using the Control Panel” on page 5-7.



Jogging

If **Jogging Tray** was inadvertently checked during the installation of the printer driver, it will appear in the printer driver's **Paper** tab. This printer does not support **jogging tray** compatibility. If necessary, remove the **jogging tray** item from the printer driver's interface by specifying it as uninstalled in the **Device Options** tab.

Default

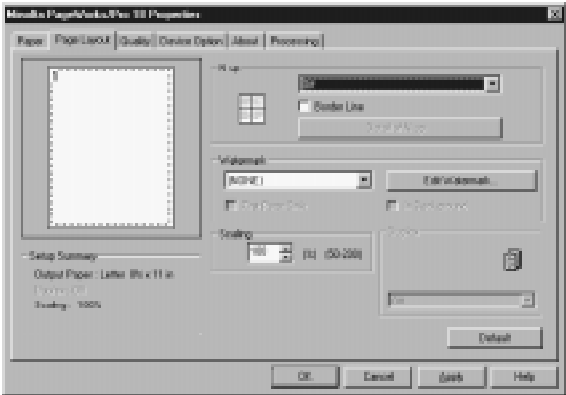
Click the **Default** button to reset the functions of the tab to their original values.

Note

- The Paper Size and Paper Source settings of other applications may override the settings made in the printer driver.

Page Layout

The **Page Layout** tab contains a realtime graphic mirror of most driver settings as well as the following features.



N-up

The N-up settings allow you to print multiple documents on a single page. Click on the drop-down list to view the possible selections.

Off	This default setting specifies one document per sheet of paper.
2 up	This setting will print two documents onto one sheet of paper.
4 up	This setting will print four documents onto one sheet of paper.
6 up	This setting will print six documents onto one sheet of paper.
9 up	This setting will print nine documents onto one sheet of paper.
16 up	This setting will print sixteen documents onto one sheet of paper.

You can place a border between N-up documents by checking the **Border Line** box.

N-up Window

Click on the **Detail of N-up...** button to open a dialog that will allow you to specify the order in which N-up documents are placed on the page. There are four patterns to choose from: *horizontal ascending*, *horizontal descending*, *vertical ascending* and *vertical descending*.



Note

- The **Scaling** and **Fit to Paper** features of the printer driver cannot be used when printing **N-up** documents.

Watermark

Watermarks are placed on a document to quickly alert the reader to the nature of its content. For example: *CONFIDENTIAL*, *DRAFT*, etc.

Through the driver, you can specify several guidelines that effect the style, content and placement of watermarks.

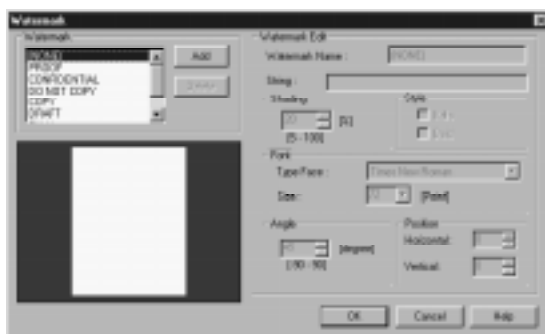
The **Watermark** drop-down list catalogs the menu of watermarks that have been entered into the printer's memory. You can add and delete watermarks from this list through the Watermark pop-up dialog.

Watermarks can be specified to appear on the first page only of a multi-page document by clicking the **First Page only** box. Otherwise, a watermark that is specified to appear will be placed on every page of the multi-page document.

When the **In Background** box is checked, watermarks will appear as shadow-text behind the actual content of the document. When the **In Background** box is not checked, watermarks are superimposed over the actual content of the document.

Watermark (pop-up dialog)

To open the dialog, click the **Edit Watermark...** button.



The dialog contains the watermark drop-down list that appeared in the **Page Layout** tab. Through the **Watermark** pop-up dialog, you can add and remove watermarks from the list.

To Add a Watermark

Click the **Add** button to open the **Watermark Edit** dialog.

Watermark Name

The name that you wish to use to identify the watermark in the **Watermark** list is entered here.

String

The contents of the watermark that you wish to create are entered here.

Shading

The density of the watermark that will appear on the document is specified here.

Style

These settings can be used to specify the style of the watermark's font.

Font

The typeface and size of the watermark is specified here.

Angle

Rotate the angle of the watermark's placement through the value specified in this box.

Position

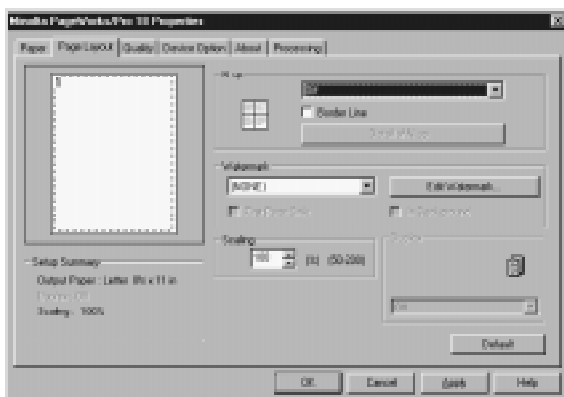
Adjust the vertical and horizontal values to position the watermark on the document.

To Remove a Watermark from the List

Select the watermark that you wish to remove from the list, click the **Delete** button and click **OK**.

To Edit a Watermark

To edit a watermark that appears on the list, select it and change the settings, then click **OK**.



Scaling

Note

- The **Scaling** feature of the printer driver cannot be used when printing **N-up** documents.

You can adjust the area of a document through the **Scaling** feature. The maximum percentage of enlargement is 200. The maximum percentage of reduction is 50.

Duplex

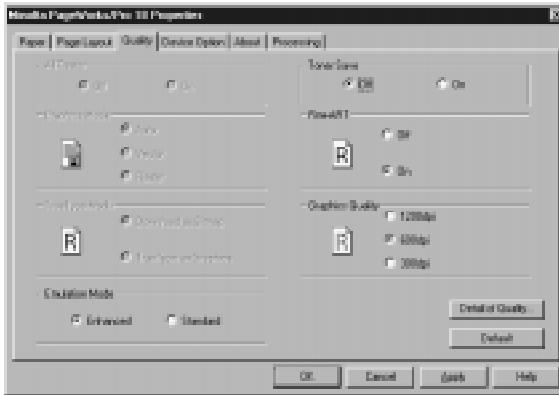
The Duplex feature enables your printer to support double-sided printing. From the drop-down list, select **Short Edge Binding** to print documents in a calendar-style format, **Long Edge Binding** to print documents in a book-style format, or **Off** for one-sided printing. The Duplex setting can only be specified when the optional **Duplex** unit is added to the **Installed Options** list in the Device Option tab.

Default

Click the **Default** button to reset the functions of the tab to their original values.

Quality

The **Quality** tab allows you to make setting changes that enhance the graphic quality of your printed documents.



All Raster

Raster images consist of dots or pixels that are arranged in rows (bit-maps).

Set to **Off**, All Raster allows you to select from the settings in the **Graphics Mode** box and the **TrueType Mode** box. Set to **On**, all print data is “rasterized” before being sent to the printer.

Toner Save

This option helps to reduce your printing costs by conserving toner when printing rough drafts or sample documents.

Off

Normal amounts of toner are consumed during printing.

On

Documents are printed using minimal amounts of toner. Lighter images and text may be noticed.

Graphics Mode

These settings control the format used to print graphic images.

The **Vector** setting handles images as vectors or sets of short line segments. Images downloaded as vectors provide faster printing. The **Vector** setting should be ideal for most printing applications. Enabling rasters sends graphic images to the printer as bitmaps. Longer printing time may be noticed when **Raster** is selected. However, if you notice a difference in the image that appears in the monitor and the image that is generated by the printer, you might try enabling the **Raster** setting.

The **Auto** mode for this setting will empower the printer to automatically select the graphics mode that is most suited to the application.

Fine-ART

The Fine-ART settings allow you to optimize the print quality of the text and graphic images of a document.

The default for **Fine-ART (On)** should be ideal for most general purposes of the printer. However, the **Off** setting is recommended when printing photographs and similar images.

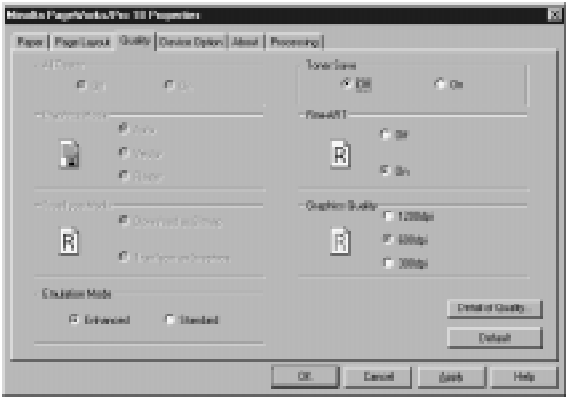
TrueType Mode

These settings control the format in which images are downloaded to the printer. When enabled, the default for this mode is **Download as Bitmap**, which supports good quality, high-speed printing for most applications.

Graphic Quality

The graphic quality setting determines the resolution used when a document is printed.

When **Fine-ART** is set to **Off**, the 1200 dpi printing resolution is available.



Emulation Mode

Enhanced

This mode provides PCL6 compatibility.

Standard

This mode provides PCL5 compatibility.

Note

- **All Raster, Graphics Mode and TrueType Mode** are unavailable when the **Emulation Mode** is set to **Enhanced**.

Default

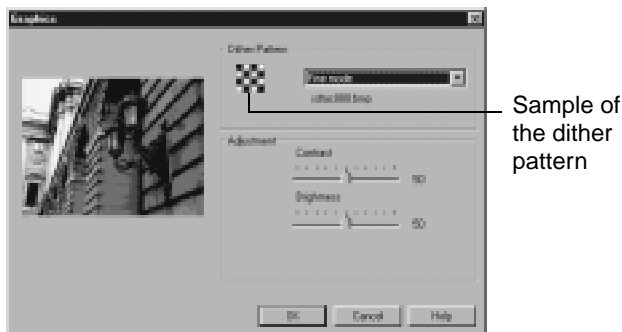
Click the **Default** button to reset the functions of the tab to their original values.

Detail of Quality...

Click this button to open the **Graphics** pop-up dialog.

Graphics (pop-up dialog)

The **Graphics** dialog contains two advanced settings, **Dither Pattern** and **Adjustment**.



Dither Pattern

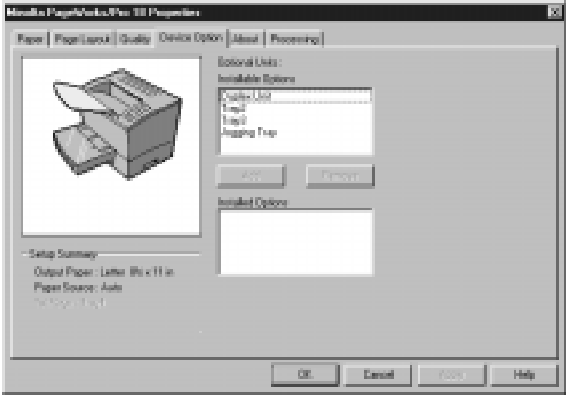
Dithering can be used to improve the texture of graphics. Changing the dither pattern will affect the gray tones and shadowing of an image. Open the drop-down list and select from the available dither patterns. A sample of the pattern will appear in the small window to the left. Documents that have been generated in the **Fine mode** may appear too dark when faxed or copied (depending upon the performance of your fax machine or copier). Select the **Photocopy** mode when printing documents that you intend to photocopy or send as a fax. The **Fine mode is recommended** for all other documents.

Adjustment

The sliders can be used to control the tones and lighting of an image in terms of **Contrast** and **Brightness**. Usually, the median values toward the center of the bars will provide the best display. To fine tune these settings, click and hold on the sliders in order to make left and right adjustments.

Device Option

The auxiliary accessories that are available for installation appear in this tab.



To add an available option from the **Installable Options** list to the **Installed Options** list, select the option and click the **Add** button.

The **Installed Options** list catalogs the optional accessories that have been added to your printer.

To remove an option from the **Installed Options** list, select the option and click the **Remove** button.

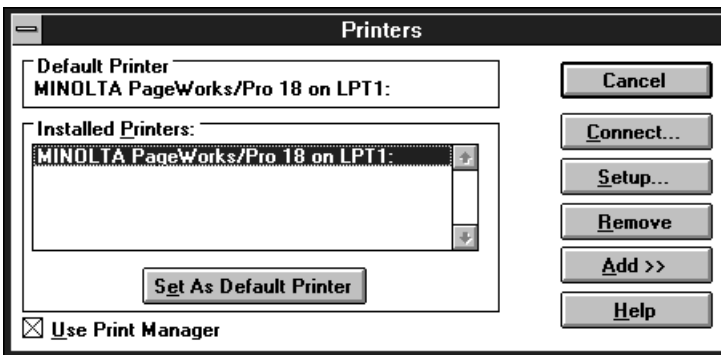
Removed options can be reinstalled using the previous procedure.

About

This tab displays version and copyright information about this printer driver.

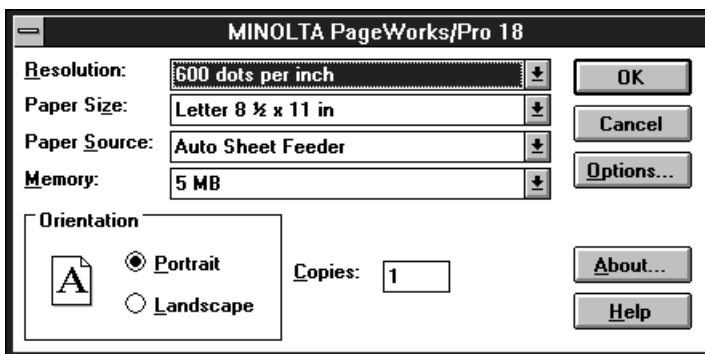
Displaying the Driver Setup Dialog (Windows 3.1)

- 1 Double-click the **Control Panel** icon which is located in the **Main** group within the **Program Manager**.
- 2 In the Control Panel dialog, double-click **Printers** to display the Printers dialog box.
- 3 In the **Installed Printers** list, click the **MINOLTA PageWorks/Pro 18** item to select it.



- 4 Click **Setup...**, which displays the Setup dialog for the printer you selected.

- 5 Use the procedure under “*Using the Printer Driver Under Windows 3.1*” on page 4-43 to enter PageWorks/Pro 18 driver settings.



Using the Printer Driver Under Windows 3.1

The Minolta PageWorks/Pro 18 printer driver lets you control a number of printer parameters from your computer. The following describes how to use the PageWorks/Pro 18 driver under Windows 3.1 and provides brief explanations on the settings you can make. See the printer driver's on-line help for full details about each setting.

Common Buttons

The following buttons appear at the bottom of the window.

OK

Click to exit the dialog, saving any changes made.

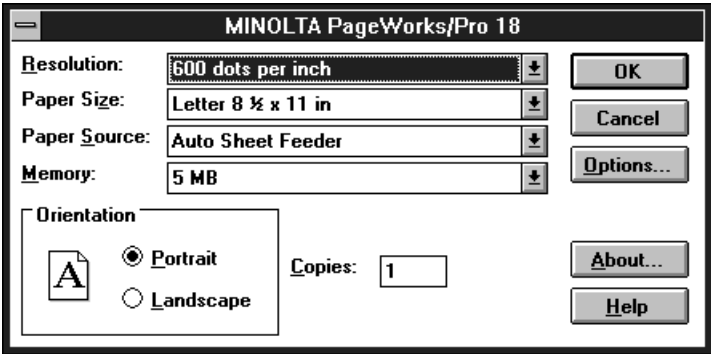
Cancel

Click to exit the dialog without saving any changes made.

Help

Click to view on-line help.

Settings



Resolution

This item displays the resolution setting of the printer driver as measured in dots per inch (DPI).

Paper Size

This item allows you to specify the sizes of paper and envelopes that you are using. The range of possible sizes is:

Paper

Letter	8 1/2 × 11 inches
Legal	8 1/2 × 14 inches
Executive	7 1/4 × 10 1/2 inches
A4	210 × 297 mm
A5	148 × 210 mm
JIS B5	182 × 257 mm

Envelopes

COM10	4 1/8 × 9 1/2 inches
DL	110 × 220 mm
C5	162 × 229 mm
B5	176 × 250 mm
Monarch	3 7/8 × 7 1/2 inches

Paper Source

This item specifies the tray from which paper is fed from the printer. To change this setting, just select the desired paper source from the drop-down list.

By setting the paper source to **Auto Sheet Feeder**, the printer will automatically select the paper source according to the paper size to be printed in the priority order of Tray 1, Tray 2, Tray 3.

Special paper (transparencies, labels, envelopes, letterhead, postcards or thick paper) must be fed to the printer through Tray 1.

When **Manual Feed** is set, the READY and PAPER indicators will appear lit on the control panel of the printer.

Insert the specified size of paper onto the manual feed unit and press the **panel button** to start printing.

Memory

This item specifies the amount of memory that is installed in the host computer that will be used by the printer driver.

Orientation

This setting allows you to determine how your document is positioned on the printed page (see Portrait and Landscape).

Portrait

Portrait documents are printed lengthwise (vertically), relative to the page.

Landscape

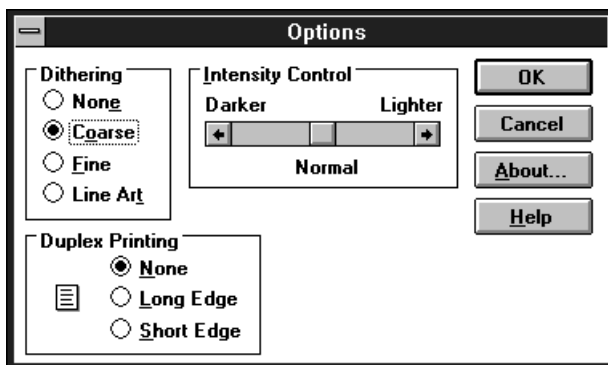
Landscape documents are printed widthwise (horizontally), relative to the page.

Copies

This item specifies the number of copies to be printed. You can specify any value from 1 to 999.

Options...

Click this button to display the dialog shown below.



Dithering

Dithering can be used to improve the texture of graphics. Changing the dither settings will affect the gray tones and shadowing of an image.

None

Dithering effects are disabled by this setting. Graphics are printed in black and white without gray shading when **None** is selected.

Coarse

Coarse is recommended when printing gray or halftones.

Fine

This setting accentuates dithering effects. **Fine** is not recommended when printing halftone images as this setting may cause them to appear too dark.

Line Art

Use this setting for your documents that contain well-defined borders. This setting is not recommended when printing photographs or other images that contain intermingling intensities and hues.

Duplex Printing

Duplex printing allows you to generate documents utilizing both the front and back sides of a sheet of paper. It is necessary to install the optional Duplex Unit onto the printer in order to perform duplex printing.

None

Duplex printing is not enabled.

Long Edge

This setting produces duplex documents that are oriented to be bound by their long edges.

Short Edge

This setting produces duplex documents that are oriented to be bound by their short edges.

Note

- Do not use special paper (transparencies, labels, envelopes, letterhead, postcards or thick paper) and paper sizes smaller than A5 for printing duplex documents.

Intensity Control

Use this setting to control the dark and light qualities of printed images. Move the scroll bar towards **Lighter** to gradually decrease, or towards **Darker** to increase the darkness of an image.

DOS Printing Utilities

Installing the Printer Driver Under DOS

Use the following procedure to install the DOS Printing Utilities.

- 1 Connect your printer to the parallel port of your computer.
- 2 Turn on your computer and start up DOS.
- 3 Turn on your printer and make sure it is online.
- 4 Insert the **Printer Driver** CD-ROM into your computer's CD-ROM drive.
 - In this example, we will assume that **D:** is the name of the CD-ROM drive.
- 5 Enter the name that has been designated to your CD-ROM drive. For example, if your CD-ROM is designated as "drive D", enter:
C:\>D:
- 6 Specify the directory under which the DOS printing utility is located:
D:\>cd dosutlty
- 7 Type **install** and press the **Enter** key.
D:\dosutlty\install

- 8** The installer will automatically execute and the following message will be displayed:

Setup will install DOS Utility in the following directory.

C:\PP18

1. To install to this directory.
2. To install to a different directory.
3. Exit Setup.

Enter a choice : 1

Select item **1** under **Enter a choice** to install the utility into the recommended directory or item **2** to install it into a different directory.

Loading and Unloading the Status Display

If you choose to add STATUS to your Autoexec.bat file, the Status Display is loaded and becomes resident in your computer's memory. The Status Display will appear automatically whenever you start up your computer. The following explains the procedure you should use to manually load the Status Display, how to remove the Status Display from the memory, and how to change a variety of Status Display settings.

To Load the Status Display From the DOS Prompt

Type the following at the DOS prompt to display the Status Display screen:

- 1 Change to the directory you created under "Installing the Printer Driver Under DOS" on page 4-49.
Type: `cd c:\PP18`↵
 - If you used the directory name we showed in our installation example, type in the command exactly as shown above. If you used a different directory name, change PP18 to the name you used.
- 2 Type the following command at the DOS prompt.
Type: `status`↵

To Remove the Status Display From Memory

Type the following at the DOS prompt:

```
status /d
```

Note

- You should use the above step to remove the Status Display from memory if the Status Display is interfering with one of your other software applications or if you need to free up the memory used by the Status Display.

Accessing the Printer Control Panel

To Access the Printer Control Panel

Type the following at the DOS prompt to access the Printer Control Panel:

- 1 Change to the directory you created under “Installing the Printer Driver Under DOS” on page 4-49.

Type: `cd c:\PP18`

- If you used the directory name we showed in our installation example, type in the command exactly as shown above. If you used a different directory name, change PP18 to the name you used.

- 2 Type the following command at the DOS prompt.

Type: `dospanel`

After the Printer Control Panel finishes reading the printer profile, the Page Setup window appears.



See page 4-53 for details on getting around in the Printer Control Panel windows.

To Exit the Printer Control Panel

Select **Exit** from the **File** menu.

Using the Printer Control Panel

The Printer Control Panel lets you control the printer from your computer. This section tells you how to maneuver around the Printer Control Panel, change its settings, and save printer setups as profiles.

Note

- You can find further information on using the Printer Control Panel by using its **Help** menu to access the online help files.

Getting Around in the Printer Control Panel

Use the following key operations to get around the Printer Control Panel and make the settings you want.

- Use the **Tab** key to move the selection cursor to the control buttons on the left side of the Printer Control Panel Screen. Once the selection cursor is in place, use the **<up>** and **<down>** arrow keys to press the desired button.
- To move the selection cursor between the menu bar at the top of the window and the selections inside of the displayed screen, press **Esc**.
- To select a menu, use **Esc** to move the selection cursor to the menu bar and then use the **<-** and **->** arrow keys to move the cursor left and right between menus.
- To pull down a menu, first select the menu and then press the **<down>** arrow key.
- To select an item inside of a menu, first pull down the menu and then use the **<up>** and **<down>** arrow keys to highlight the item you want. Next, press **Enter** to execute the item.
- To change a setting inside of a screen, use **Tab** to move the selection cursor between items. When an item is selected, use **<up>** and **<down>** to change its setting.

To Print a Test Page or Demo Page

Select the test or demo page you want to print from the **Options** menu.

To Register Installed Options

Select **Device Option** from the **Options Menu** to register or update the options that have been installed on your printer. Installed options must be registered in order for them to become available at the host computer.

Printer Control Panel Screens

This section describes the settings that are available in the Printer Control Panel Screens.

Common Buttons

OK

Select this button to export the current settings to the printer.

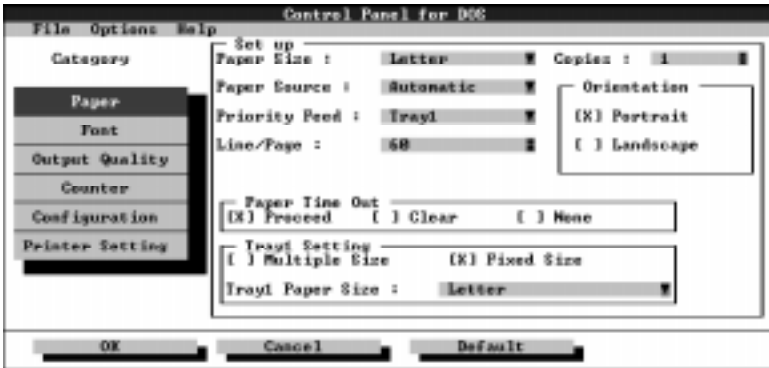
Cancel

Select this button to restore all fields to their previous settings without updating the printer profile.

Default

Select this button to return all fields to their default settings.

Paper Screen



Paper Size

Use this list to specify either paper or envelopes for printing, and the size of each.

Paper Source

Use this setting to specify whether the printer automatically selects the paper tray for feeding, whether paper should be fed from a designated tray or whether paper will be fed manually.

Priority Feed

Use this setting to specify Tray 1, Tray 2 or Tray 3 as the priority tray. The priority tray is the one that the printer feeds from when the paper source setting is **Automatic** or if the same size paper is loaded in all trays.

Line/Page

Use this setting to specify the number of lines that should be printed on each page.

Copies

Use this setting to specify how many copies of the document should be printed within a range of 1 to 999. The default setting is 1.

Orientation

Select the paper orientation setting you want to use. The default is Portrait.

Paper Time Out

During manual feeding of paper, the printer pauses during printing to wait for you to feed the next sheet. The “paper time out” condition exists when the printer is paused and nothing happens for about 10 minutes.

Setting	Paper Time Out Action
Proceed	Paper is automatically fed from another paper tray.
Clear	The print job is cleared (cancelled).
None	The printer continues to wait until you feed paper or manually cancel the print job.

Tray1 Setting

Specify whether Tray 1 is a multi-purpose (**Multiple Size**) tray or a fixed-size tray. When **Multiple Size** is selected, a size mismatch error (Load XX) does not occur regardless of the size of paper loaded in Tray 1. **Multiple Size** is a convenient setting for printing documents on various sizes of paper from Tray 1. When **Fixed Size** is selected, you must specify the size you want in the **Tray 1 Paper Size** drop-down list.

Font Selection Screen



Typeface

Select the typeface you want to use from this list.

Pitch/Point

Specify the type size you want to use, either by scrolling the value in the upper box or by selecting a value from the lower box. The values indicate points for proportional fonts and inches for fixed pitch fonts.

Note

- When Typeface is set to Courier, 99.99 is the maximum pitch possible.

Symbol Set

Select the symbol set for the typeface you are using.

Output Quality Screen



Toner Save

Specify **On** or **Off** for the toner save setting. Turning toner saving on uses less toner for printing and helps toner cartridges to last longer. The **Off** setting produces normal output and toner usage, while **On** uses less toner but prints lighter.

Fine ART

Specify **Off** or **On** for the Fine ART setting. Turning Fine ART on smooths out jagged edges of text and graphics for very high quality printing. The default setting for Fine ART is **Off**, which is generally acceptable for most applications. Fine ART controls the size of dots along the edges of text, lines, and graphics so you might want to change the setting if edges appear too light or dark. Some graphics that include gray shading or a screen pattern are improved by turning Fine ART off.

Print Language

The printer language defines how the computer communicates with the printer. If you select **Automatic**, the printer language will change automatically.

Counter Screen



Total Counter

This value shows how many pages have been printed throughout the life of the printer. This value cannot be reset.

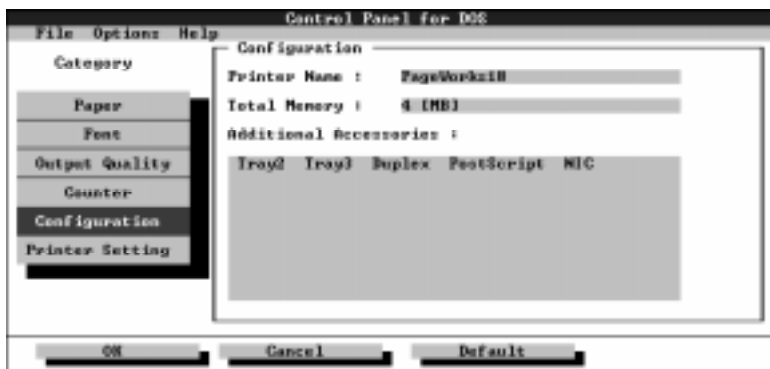
Tray 2 Counter

This value shows how many pages have been printed from Tray 2. This value can be reset to zero by clicking the **Reset** button.

Tray 3 Counter

This value shows how many pages have been printed from Tray 3. This value can be reset to zero by clicking the **Reset** button.

Configuration Screen



Printer Name

This box shows the name assigned to the connected printer.

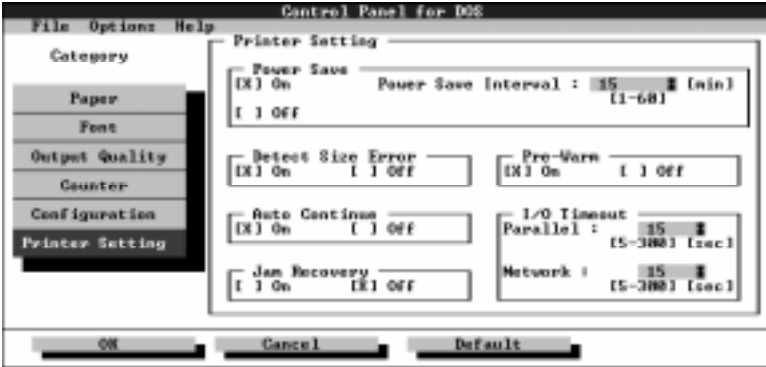
Total Memory

This box shows how much memory is installed on the printer.

Additional Accessories

This box shows any additional accessories installed on the printer.

Printer Setting Screen



Power Save

Specify **On** or **Off** for the Power save setting. Turning power save on causes the printer to enter a “sleep” mode whenever it is idle for the period of time specified by the power save interval.

Power Save Interval

Specify the amount of time in minutes that the printer should wait before entering its “sleep” mode.

Detect Size Error

A size error occurs when the actual paper size is different from the paper size specified in the printer driver. Use this setting to turn the size error detection on and off.

Auto Continue

Auto continue lets the printer automatically recover from printer overrun and memory overflow errors. Use this setting to turn auto continue on and off.

Jam Recovery

When this control is **On**, the printer will save data in the event that the document should jam before it is output. Data is not saved when this control is set to **Off**.

Pre-Warm

Select the **On** setting to preheat the printer's fuser as soon as a print job is received from the host computer. The fuser will not warm up immediately after receiving a print job when **Off** is selected.

I/O Timeout

Select **Parallel** when the printer is connected directly to the computer using a parallel cable. If the printer is being operated in a network environment, select **Network**.

Using the Status Display

This section describes how to display the Status Display and make changes in the operating environment of the Status Display.



To Display the Status Display

After the Status Display is loaded, perform the required hot key combination (a combination of keys you press at the same time to perform an operation) to display the Status Display. The following is the default hot key combination:

[ctl]+[alt]+[R]

After the Status Display screen is displayed, you can change the hot key combination.

To select the **Setup Menu**, highlight **Setup** by pressing the **Tab** key and then press the **Enter** key. The **Setup Menu** will be displayed.

To select an item on the Status Display, first highlight it, then press the **Enter** key to advance to its setting screen.

The following is a brief explanation of the items that are available on the Status Display. Further information can be found in the Status Display's online help.

Status Display Screen

The following describes each of the buttons and the commands on the Status Display **Setup** menu.

Set Display Mode Command (Setup Menu)

In the dialog that appears when you execute this command, click the checkbox next to the **Enable Popup** setting to toggle popup error messages on (checked) and off (unchecked). When this feature is turned on, a dialog box will appear to alert you whenever an error condition occurs.

- When a popup error message occurs, correct the problem and then click **OK**.
- You can control which error conditions cause popup error messages to appear by using the procedure under “Change Popup Message Command” below.

Change Hot Key Command (Setup Menu)

The dialog that appears when you execute this command shows the current hot key combination that launches the Status Display. While the dialog is open, you can change the hot key combination by pressing the key you want to change.

Change Popup Message Command (Setup Menu)

The dialog that appears when you execute this command contains a list of error conditions that cause popup error messages to appear. Error conditions marked **Active** cause a popup error message to appear when they occur, while no message appears for conditions marked **Inactive**. To toggle an error condition between **Active** and **Inactive**, highlight it and then press **Enter**.

Close (button)

Select this button to close the Status Display screen. The Status Display remains in memory when you return to the DOS prompt. It can be removed by typing the following:

```
status /d
```

Help (button)

Select this button to display online help about the Status Display.

Chapter
Printer Status Display
and Control Panel

5

Using the Printer Status Display

The Printer Status Display provides you with a variety of useful information about the current status of your printer.

Opening the Printer Status Display

Before opening the Printer Status Display, make sure that the printer is connected to your computer with the parallel interface cable.

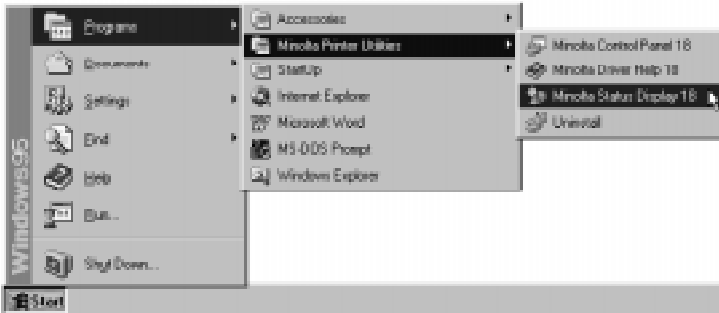
Use the procedure below to open the Printer Status Display.

Note

- The Printer Status Display opens automatically when you startup your computer if you checked the “Setup to start Status Display automatically” option when you installed the printer driver. If you did not select the above option, you must open the Printer Status Display using the procedure below.

To Open the Printer Status Display

Click **Start**, point to **Programs**, point to **Minolta Printer Utilities**, and then click **Minolta Status Display 18**.

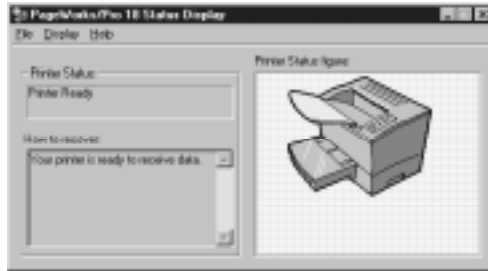


- This operation will open the screen which is shown on page 5-2.

To Close the Printer Status Display

Click **Exit** from the Printer Status Display **File** menu.

Using the Printer Status Display



Printer Status

This area displays text messages that describe the current operational status of the printer.

How to recover

This area provides you with explanations of what you need to do in order to correct problems and recover from error conditions.

Printer Status figure

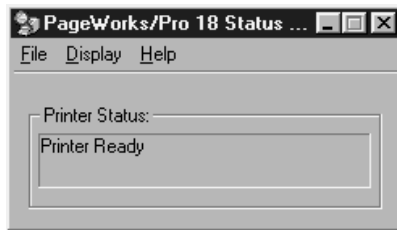
This area shows a graphic representation of the printer and indicates where there is a problem.

Switching Between the Expanded and Reduced Views

You can use the following procedure to switch between the expanded and reduced views of the Printer Status Display.

On the **Display** menu, click **Reduce** to reduce the size of the display, or **Expand** to expand it.

- The expanded view is the normal size shown under “Using the Printer Status Display” on page 5-2. The reduced view is shown below.



On-line Help

Use the **Help** menu to display online help about the Status Display.

Using the Control Panel

The Control Panel displays the current settings of the printer on separate tabs. Click on a tab to view its contents or to change its settings.

The following sections show the contents of each of the tabs and provide brief explanations of each setting available. See the Control Panel on-line help for full details on each setting.

Note

- The following information is common to Windows 95/98 and Windows NT 4.0.



Common Buttons

The following buttons appear at the bottom of all the tabs.

OK

Click to exit the Control Panel, saving any changes made.

Cancel

Click to exit the Control Panel, discarding any changes made.

Set Default

Click to return Control Panel settings to their defaults.

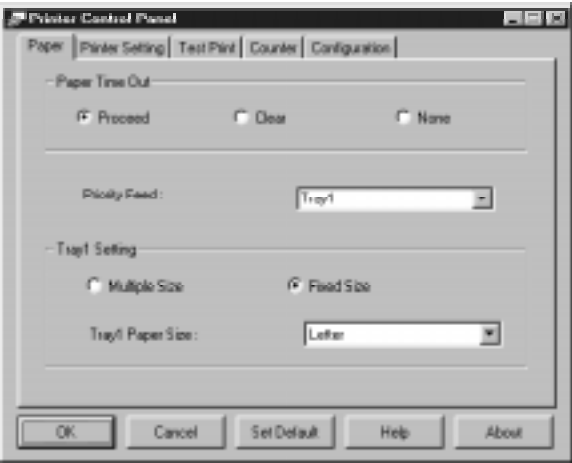
Help

Click to view on-line help.

About

Click to view copyright and version information.

Paper



Paper Time Out

During manual feeding of paper, the printer pauses during printing to wait for you to feed the next sheet. The “paper timer out” condition exists when the printer is paused and nothing happens for about 10 minutes.

Setting	Paper Time Out Action
Proceed	Paper is automatically fed from another paper tray.
Clear	The print job is cleared (cancelled).
None	The printer continues to wait until you feed paper or manually cancel the print job.

Priority Feed

Use the drop-down list of available paper sources to select their order of priority.

Tray1 Setting

Specify whether Tray 1 is a multi-purpose (**Multiple Size**) tray or a fixed-size tray. When **Multiple Size** is selected, a size mismatch error (Load XX) does not occur regardless of the size of paper loaded in Tray 1. **Multiple Size** is a convenient setting for printing documents on various sizes of paper from Tray 1. When **Fixed Size** is selected, you must specify the size you want in the **Tray 1 Paper Size** drop-down list.

Multiple Size

This setting enables Tray 1 to handle all paper sizes.

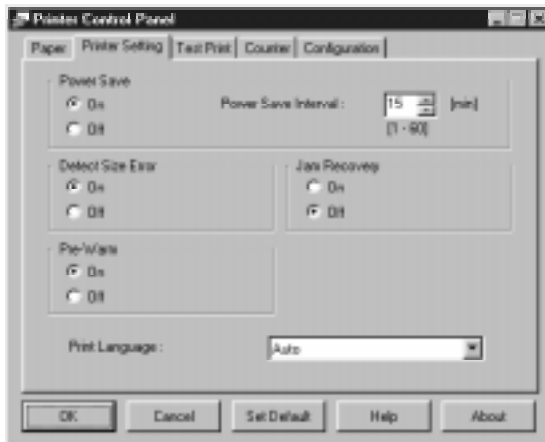
Fixed Size

This setting limits the paper handling capability of Tray 1 to the specified paper size.

Tray1 Paper Size

Specify the paper size handling capability of Tray 1 through this drop-down list (custom paper sizes are not available). This setting is not supported when **Multiple Size** is enabled.

Printer Setting



Power Save

These controls determine the power saving settings of your printer. Select the **On** setting to enable the power saving mode. The mode will be disabled if you check **Off**. The **Power Save Interval** setting determines the number of minutes that the printer will sit without receiving a command before entering the power save mode. You can enter any interval of time from 1 to 60 minutes.

Detect Size Error

This setting enables the printer to automatically detect if paper of a size that is not currently specified has been loaded into the currently selected tray. Select **On** to enable size error detection and **Off** to disable the feature.

Jam Recovery

When this control is **On**, the printer will save data in the event that the document should jam before it is output. Data is not saved when this control is set to **Off**.

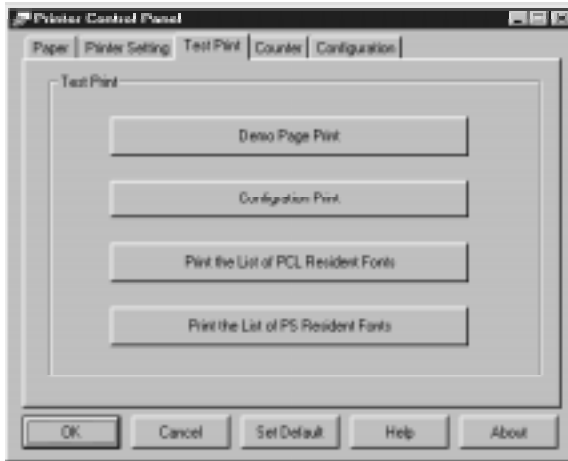
Pre-Warm

Select the **On** setting to prewarm the printer's fuser as soon as a print job is received from the host computer. The fuser will not warm up immediately after receiving a print job when **Off** is selected.

Print Language

Select the desired language of the printer from this drop-down list. You can select from PCL, PS (optional) and Auto.

Test Print



Demo Page Print

Click this button to print a Demo Page.

Configuration Print

Click this button to print a page that shows the printer's current configuration.

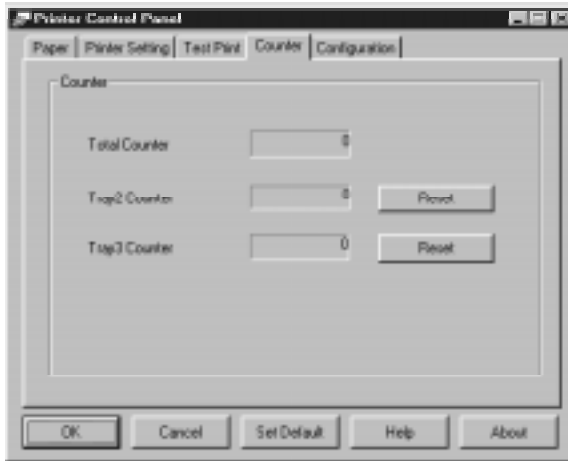
Print the List of PCL Resident Fonts

Click this button to print a list of the PCL resident fonts that are installed on your printer.

Print the List of PS Resident Fonts

Click this button to print a list of the PS resident fonts if there is an optional PS SIMM installed in your printer.

Counter



Total Counter

This value shows how many pages have been printed throughout the life of the printer. This value cannot be reset.

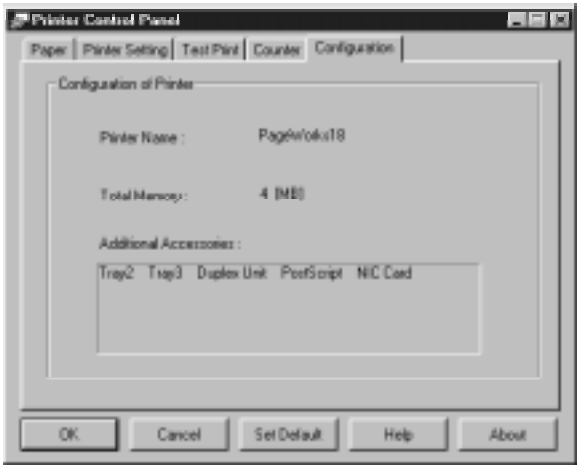
Tray2 Counter

This value shows how many pages have been printed from Tray 2. This value can be reset to zero by clicking the **Reset** button.

Tray3 Counter

This value shows how many pages have been printed from Tray 3. This value can be reset to zero by clicking the **Reset** button.

Configuration



Printer Name

This box shows the name assigned to the printer.

Total Memory

This box shows how much memory is installed on the printer.

Additional Accessories

This box shows any additional accessories installed on the printer.

Chapter

Maintenance

6

Replacing the Imaging Cartridge

The **imaging cartridge** contains the print drum and a supply of toner. If you print typical business A4 size pages with 5% coverage of toner, the **imaging cartridge** lasts for approximately 9,000 pages. However, the life of the **imaging cartridge** varies with the actual density of toner that is used.

When the **Ready** and **Error LEDs** are lit and the **Paper LED** is off on the **control panel**, a low level of toner in the **imaging cartridge** is indicated. This situation will be confirmed by the **Toner Near Empty** message that will appear in the Status Display. Print quality will gradually decline so a replacement for the **imaging cartridge** should be prepared for installation at this time.

To use as much of the remaining toner as possible, remove the **imaging cartridge**, shake it 2 or 3 times and reinstall it in the printer. If print quality is not satisfactory, you should replace the **imaging cartridge** with a new one according to the following procedure.

When the **Ready** and **Error LEDs** are lit and the **Paper LED** is blinking on the **control panel**, the **imaging cartridge** is now empty. The **imaging cartridge** must be replaced.

Note

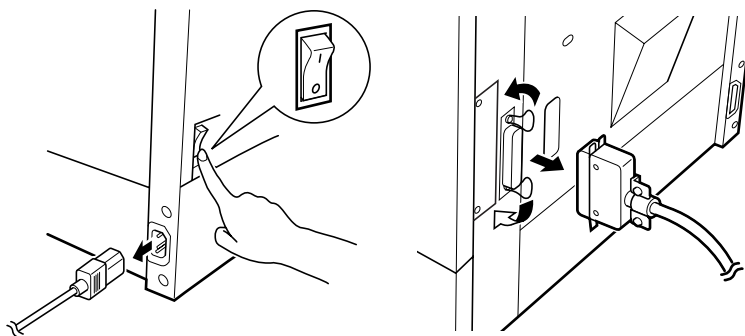
- The **Toner Near Empty** message appears in the Status Monitor as a reminder that the **imaging cartridge** will run out of toner soon. Since print quality will decline after the **Toner Empty** message appears, replacement with a new **imaging cartridge** is recommended when the **Toner Near Empty** message is displayed.
- The **imaging cartridge** that comes with the printer is capable of producing approximately 5,000 A4-size prints.

To Replace the Imaging Cartridge

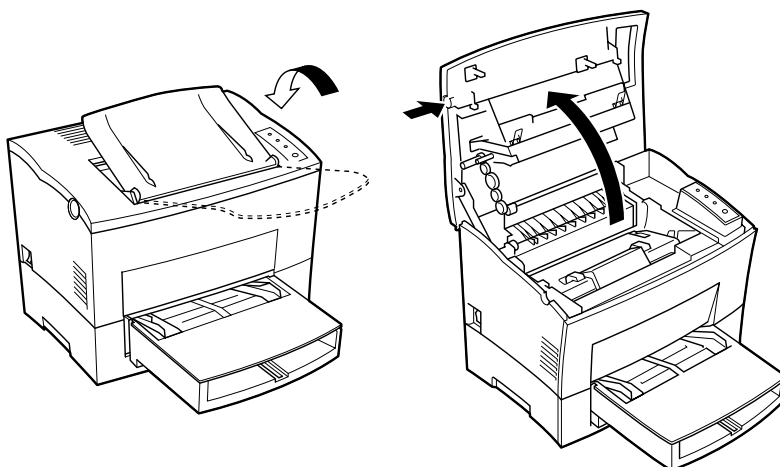
Caution

- The fusing unit inside the printer can become very hot during operation. Do not touch the area to avoid injury.

- 1 Turn the printer off and then disconnect the power cord and interface cable from the printer.



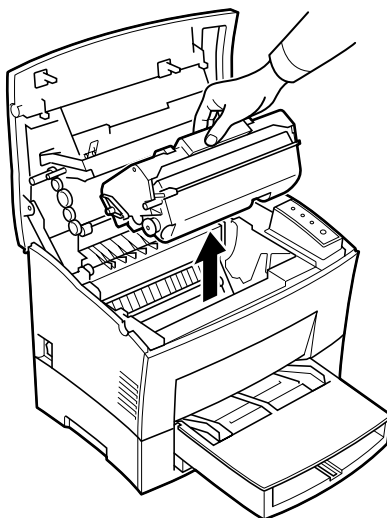
- 2 Close the **face-down tray** and press the **top cover release button** to open the top cover.



Note

- Be sure to close the **face-down tray** before opening the top cover to prevent injuries.

3 Remove the old **imaging cartridge**.

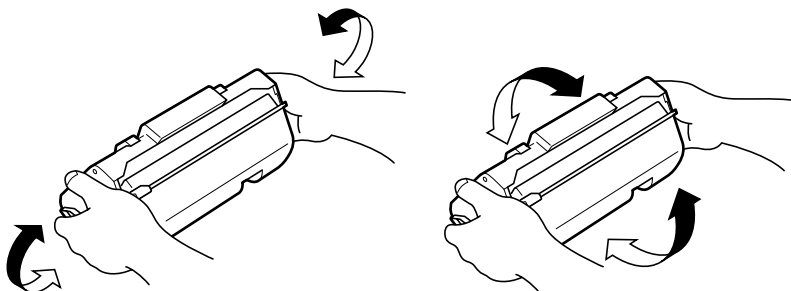


Note

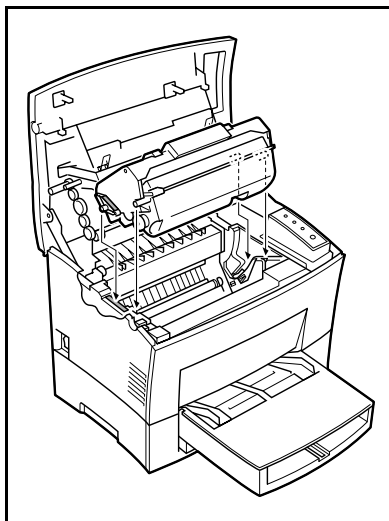
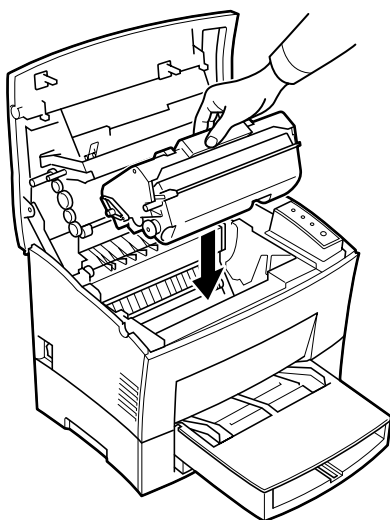
- Do not touch the shutter of the **imaging cartridge** to avoid causing damage to the drum unit. When handling the **imaging cartridge**, always use the handle.

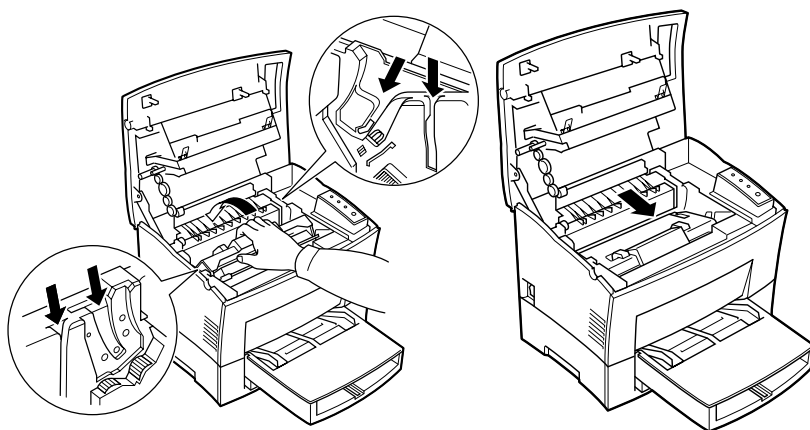
Replacing the Imaging Cartridge

- 4 Take a new **imaging cartridge** out of the box. Holding it with both hands, shake it 4 or 5 times in the direction of the arrows to distribute the toner evenly.

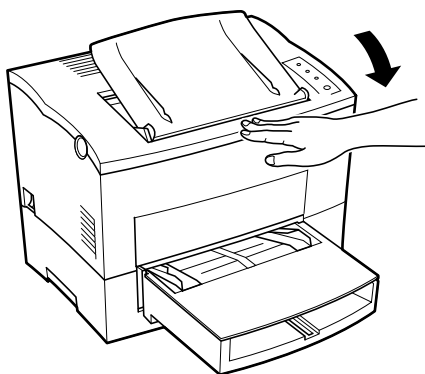


- 5 Install the **imaging cartridge** securely into the printer by sliding the pins on each side of the cartridge along the grooves of the cartridge guide.





- 6** Close the top cover and press it down gently but firmly until it locks into place.



Cleaning the Printer

Dust, dirt, and paper debris on the outer surfaces and inside the printer can interfere with printer performance. Clean the printer regularly.

Note

- Use a soft cloth to clean the printer. Never use abrasives or corrosive detergents.

Caution

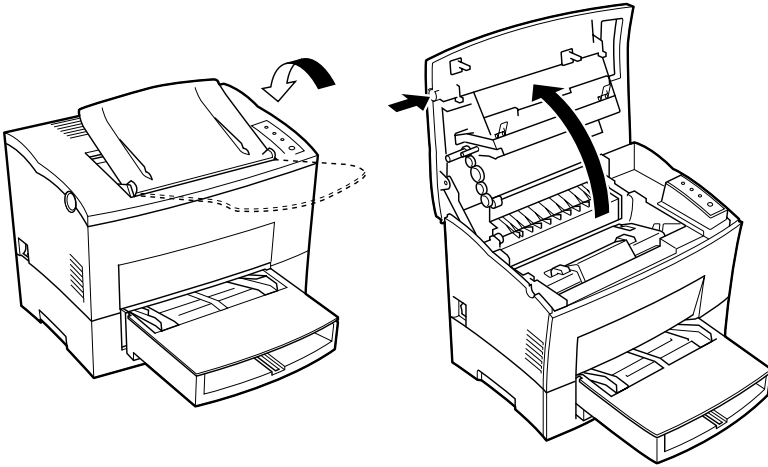
- The **fusing unit** can become very hot during operation. Do not touch the area to avoid injury. Wait for at least 10 minutes after the printer has been turned off and make sure that the **fusing unit** has cooled before cleaning the interior of the printer.

Cleaning the Outside of the Printer

Wipe the outside of the printer with a soft cloth moistened with a neutral, household detergent.

Cleaning the Paper Transport Roller

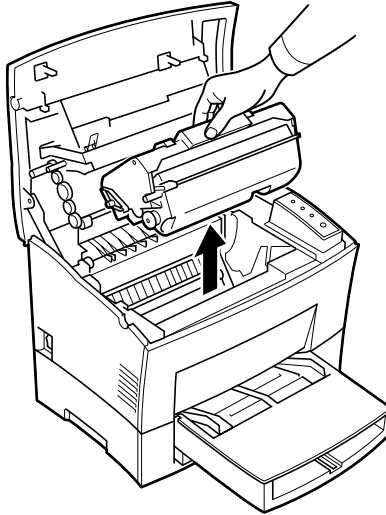
- 1** Turn off the printer and unplug the power cord.
- 2** Close the **face-down tray** and press the **top cover release button** to open the top cover.



Note

- Be sure to close the **face-down tray** before opening the top cover to prevent injuries.

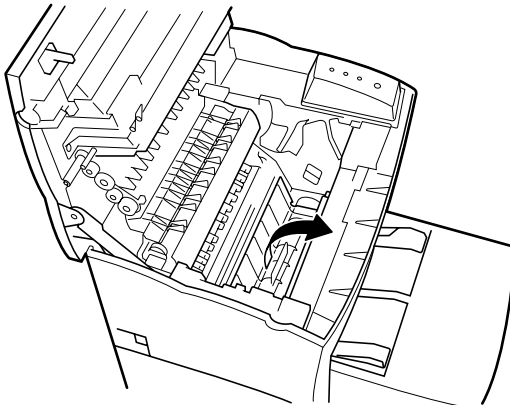
3 Remove the **imaging cartridge**.



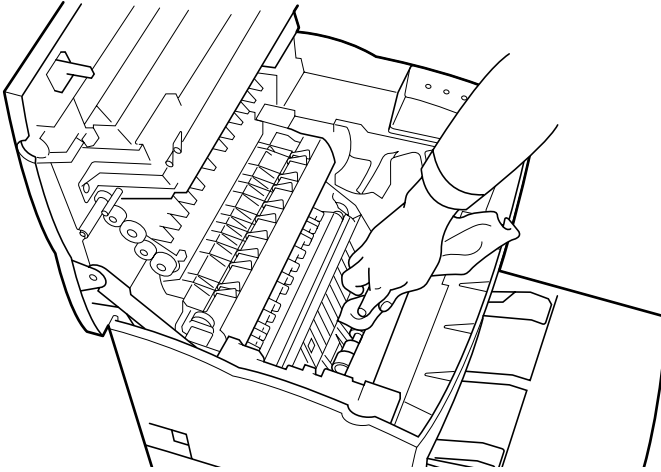
Note

- Immediately wrap the **imaging cartridge** with a cloth to protect it from overexposure to light.

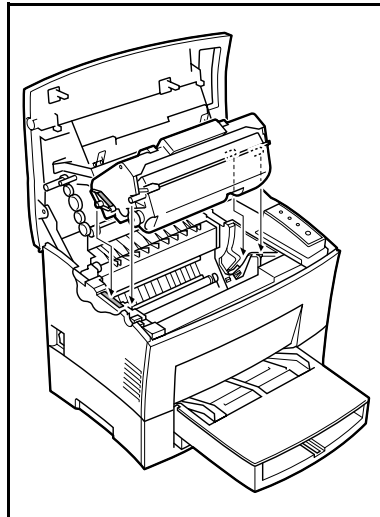
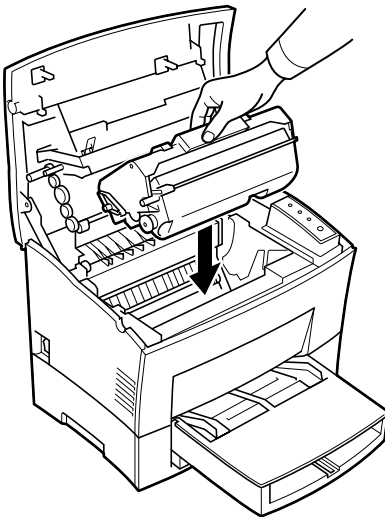
4 Pull back on the cover that protects the **paper transport roller** located at the bottom of the printer chamber.



- 5** Use a soft cloth to wipe the **paper transport roller**.

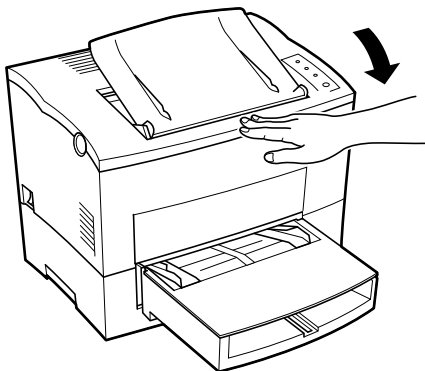


- 6** Reinstall the **imaging cartridge** as shown on page 6-4 and 6-5.



Cleaning the Printer

- 7 Close the top cover and press it down gently but firmly until it locks into place.



Chapter 7

Troubleshooting

Technical Support

Technical support for all Minolta PageWorks printer products is available 24 hours a day, seven days a week by calling **1-800-459-3250** (from within North America). Minolta also maintains a Web site which provides printer driver downloads, Frequently Asked Questions and handles all e-mail requests for technical assistance at:
<http://www.minoltaprinters.com>.

Please be prepared to provide the following information when contacting Minolta Technical Support:

- Model Name
- Serial number
- A detailed description of the problem

For questions or problems with installation, please be prepared to provide the following additional information:

- Brand name and model number of the computer
- Type of processor
- Type of operating system
- Amount of installed RAM

Clearing a Paper Misfeed

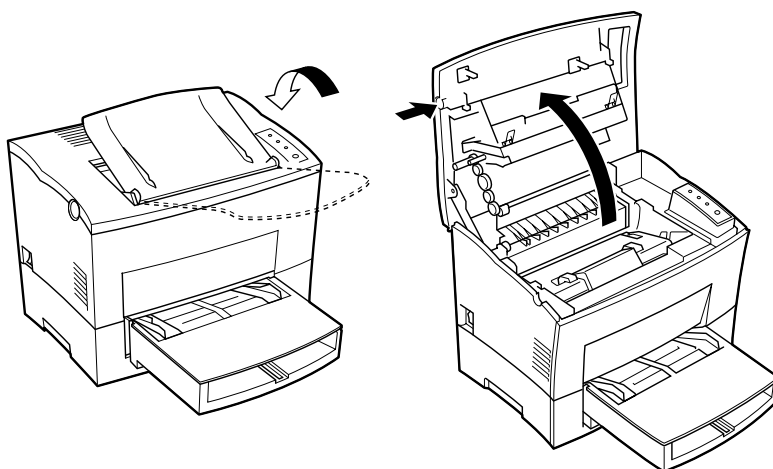
Inside the Printer

Use the following procedure to remove a misfed paper from inside the printer.

Caution

- The **fusing unit** inside the printer can become very hot during operation. Do not touch the area to avoid injury.

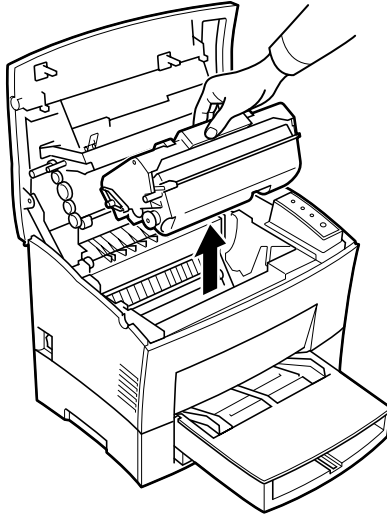
- 1 Close the **face-down tray** and press the **top cover release button** to open the top cover.



Note

- Be sure to close the **face-down tray** before opening the top cover to prevent injuries.

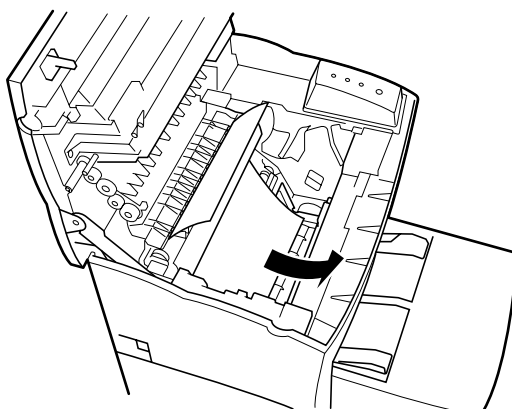
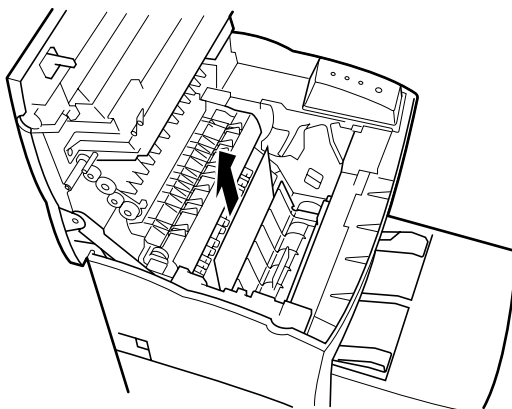
- 2 Remove the **imaging cartridge**.



Note

- Immediately wrap the **imaging cartridge** with a cloth to protect it from overexposure to light.

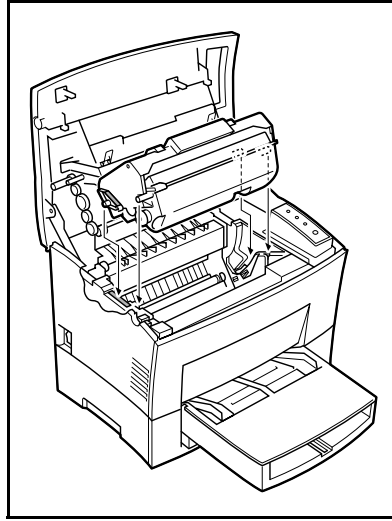
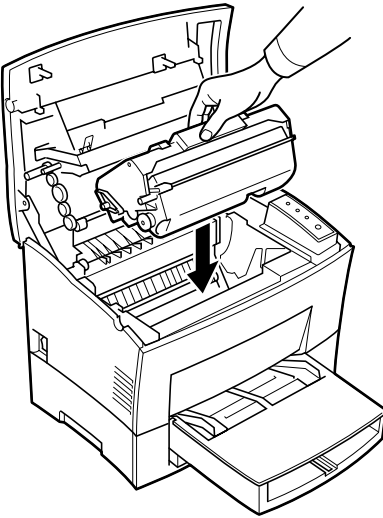
- 3 Pull the end of the paper that is visible straight out of the printer.



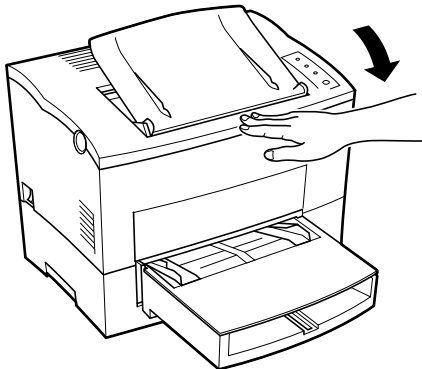
Caution

- Do not touch the **image transfer roller**.

- 4** Reinstall the **imaging cartridge** as shown on page 6-4 and 6-5.

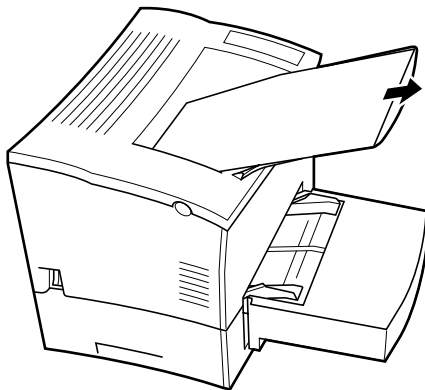


- 5** Close the top cover and press it down gently but firmly until it locks into place.



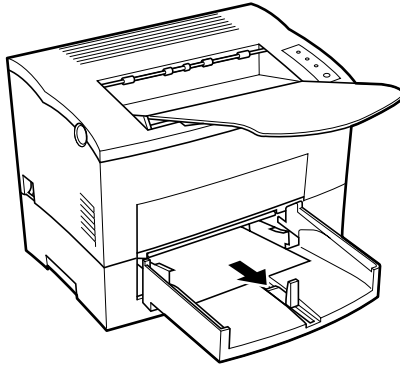
Paper Output Misfeed

Pull the misfed paper straight out of the printer.



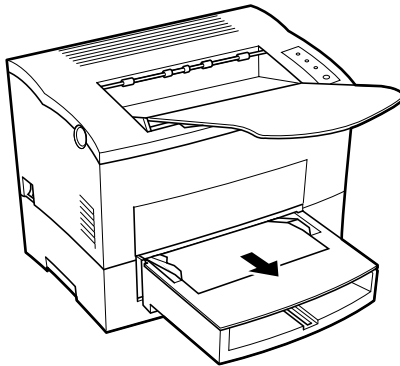
Paper Input Misfeed (from Tray 1)

Remove the **tray cover** and pull the misfed paper straight out of the printer.



Paper Input Misfeed (from Manual Feed Tray)

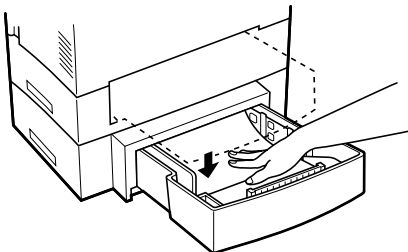
Pull the misfed paper straight out of the printer.



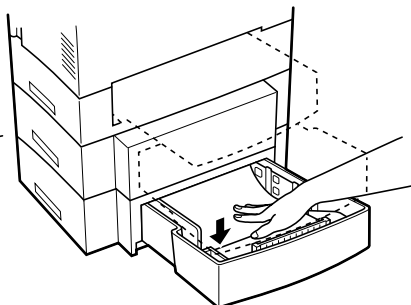
Paper Input Misfeed (from Second/Third Paper Cassette Unit)

Remove the **cassette cover** and pull out **Tray 2/Tray 3** from the **second/third paper cassette unit**. Press down on the stack of paper until the paper lifting plate locks.

Tray 2

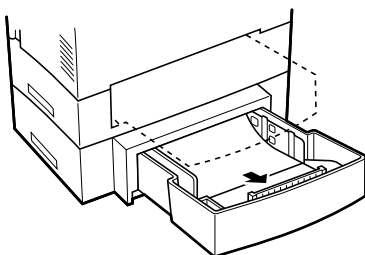


Tray 3

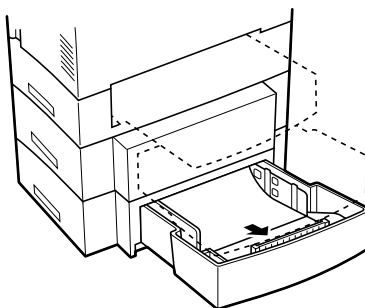


Remove the stack of paper from the tray and pull the misfed paper straight out of the printer.

Tray 2



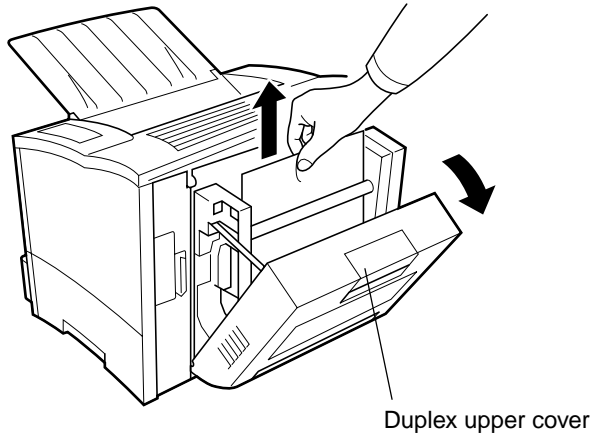
Tray 3



Paper Misfeed in the Duplex Unit

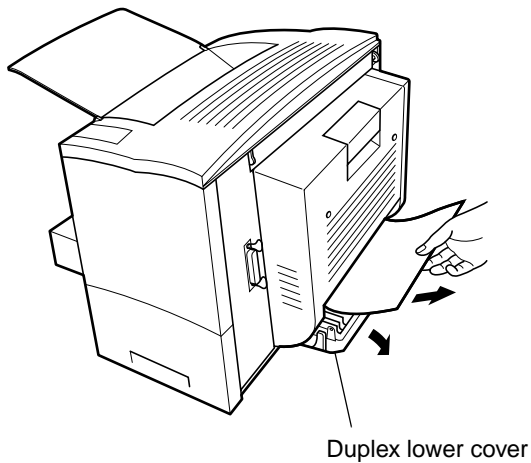
Upper Misfeed

Open the duplex upper cover and pull out the misfed paper.



Lower Misfeed

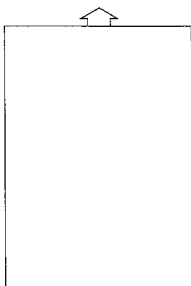
Open the duplex lower cover and remove the misfed paper.



Print Quality Problems

The following provides information on most print quality problems you might encounter. If the advice provided here does not solve your problem, contact Minolta Technical Support.

Blank pages



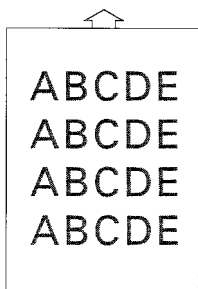
- The imaging cartridge may be running out of toner.
Remove the imaging cartridge and rock it left and right a few times to distribute remaining toner.
If the problem persists, replace the imaging cartridge (page 6-2).
- The imaging cartridge may be defective.
Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).

Black pages



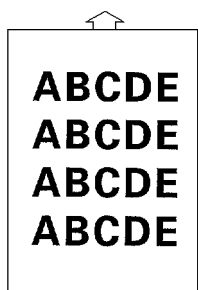
- The imaging cartridge may be defective.
Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).
- Your printer may require servicing. Contact Minolta Technical Support.

Printout too light



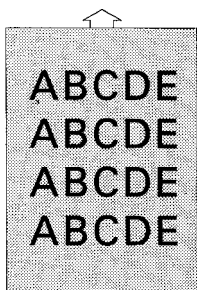
- The toner save setting of the printer driver may be “On”.
Change the setting and try printing again.
- The imaging cartridge may be running out of toner.
Remove the imaging cartridge and rock it left and right a few times to distribute remaining toner.
If the problem persists, replace the imaging cartridge (page 6-2).
- The imaging cartridge may be defective.
Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).

Printout too dark



- The imaging cartridge may be defective.
Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).

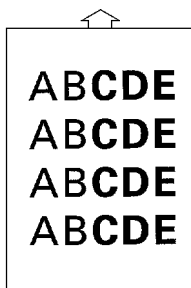
Blurred background



- The imaging cartridge may be defective.

Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).

Uneven print density



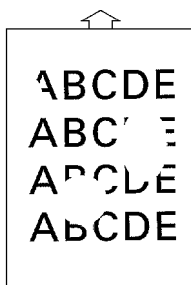
- The toner may be unevenly distributed inside the imaging cartridge.

Remove the imaging cartridge and rock it left and right a few times to distribute remaining toner.

- The imaging cartridge may be defective.

Remove the imaging cartridge and check it for damage. Replace the imaging cartridge if necessary (page 6-2).

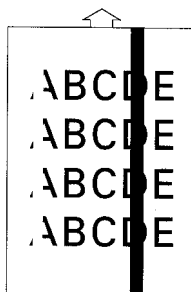
Irregularities



- The paper may have absorbed some moisture due to high humidity or because of direct contact with water.

Since toner will not adhere well to damp paper, replace the paper you are using with dry paper and try printing again.

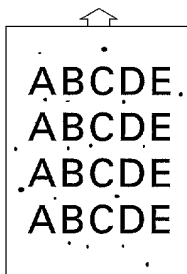
White or black line



- The imaging cartridge may be defective.

Remove the cartridge and check it for damage. Replace the cartridge if necessary.

Toner smudges



- The toner may be unevenly distributed inside the imaging cartridge.

Remove the imaging cartridge and rock it left and right a few times to distribute remaining toner.

- The imaging cartridge may be defective.

Remove the cartridge and check it for damage. Replace the cartridge if necessary.

- Smudges on the back of the paper indicate a dirty transport roller. Contact Minolta Technical Support.

No output

Failure to produce output may indicate a communications problem between the printer and your computer. Check the following points to see if you can correct the problem. If problems persist, contact Minolta Technical Support.

Are you using the correct type of printer cable?

Save the data you are trying to print and close all the applications currently open on your computer. Next, reset your computer to send a break signal to the printer. Now check your printer cable against the specifications in Chapter 8 of this *User's Manual*.

Note

- When connecting your computer to the parallel connector on the printer, we recommend using a IEEE1284 type-B parallel interface cable (1.5 m long).

Are your computer's communications port settings correct?

Refer to the documentation that comes with your computer and check if its current communications port settings are correct.

Chapter 8

Specifications

PageWorks 18 Printer

Type:	Desktop laser beam printer
Print system:	Electrostatic dry powder imaging system
Exposure system:	Laser diode + polygon mirror scanning
Resolution:	600 dpi
Print speed:	One sided: 18 pages per minute (A4-size paper) Double sided: 5 pages per minute (A4-size paper)
First print:	One sided: Within 18 seconds (Letter or A4) Double sided: Within 28.5 seconds (Letter or A4)
Paper sizes:	A4, A5, JIS B5, DL Envelope, C5 Envelope, B5 Envelope, Letter, Legal, Executive, Com 10 Envelope, Monarch Envelope, Custom
Media:	Plain paper (60 to 90 g/m ² ; 16 to 24 lbs.); recycled paper (60 to 90 g/m ² ; 16 to 24 lbs.); transparencies; letter head; labels; envelopes; postcards; thick paper (90 to 163 g/m ² ; 24 to 43 lbs.)
Paper feeding:	Tray 1 (Multipurpose tray); manual feed; Tray 2 (500-sheet second cassette) (option); Tray 3 (500-sheet third cassette) (option)
Input capacity:	Tray 1 (Multipurpose tray): 250 sheets; Tray 2 (Second cassette) (option): 500 sheets; Tray 3 (Third cassette) (option): 500 sheets
Output capacity:	250 sheets (face down)
Warm-up time:	23 seconds or less

Operating temperature: 10° to 35°C

Operating humidity: 15% to 85%

Power consumption: 820 W or less

Standby (average): 60 W or less

Power save (average): 30 W or less

Amperage: 7.0 A or less (120 V)

Machine life: 300,000 prints or five years

Imaging cartridge life: 9,000 prints min. (black-to-white ratio of 5% or less)

The imaging cartridge that comes with the printer is capable of producing approximately 5,000 A4-size prints.

Power supply: 120 - 127 V, 50 - 60 Hz

Acoustic noise: 67 dB(A) max. (operating); 33 dB(A) max. (power saving mode)

External dimensions:

Height: 14-3/4" (374 mm)

Width: 17-5/32" (436 mm)

Depth: 20" (511 mm)

Weight: Printer: Approx. 28-3/4 lbs. (13 kg)

Imaging cartridge: Approx. 3-1/4 lbs. (1.5 kg)

Interface: Parallel

Centronics (IEEE 1284/ECP)

CPU: Power PC 403GCX/66MHz

Standard memory: 4 MB (expandable up to 64 MB)

Accessories: Power cord, User's Manual, Quick Guide, CD-ROM

Options:

Second paper cassette unit;
Third paper cassette unit;
Duplex unit; DRAM SIMM;
Adobe PostScript ROM-SIMM;
NIC (Network Interface Card)
(options available from local dealer)

Second Paper Cassette Unit (Option)

Paper feeding system:	One-way system (multi-feed tray)
Paper types:	Ordinary plain paper (60 to 90 g/m ² ; 16 to 24 lbs.); recycled paper (60 to 90 g/m ² ; 16 to 24 lbs.)
Paper cassettes:	Letter (Option: Legal, Executive, A4, JIS B5)
Tray capacity:	Up to 500 sheets (plain and recycled paper)
Operating temperature:	10° to 35°C
Operating humidity:	15% to 85%
External dimensions:	
Height:	4-3/4" (120 mm)
Width:	17-1/4" (436 mm)
Depth:	13-3/4" (351 mm)
Weight:	Approximately 10-1/4 lbs. (4.6 kg) not including the Legal Cassette (Tray)

Third Paper Cassette Unit (Option)

Paper feeding system:	One-way system (multi-feed tray)
Paper types:	Ordinary plain paper (60 to 90 g/m ² ; 16 to 24 lbs.); recycled paper (60 to 90 g/m ² ; 16 to 24 lbs.)
Paper cassettes:	Letter (Option: Legal, Executive, A4, JIS B5)
Tray capacity:	Up to 500 sheets (plain and recycled paper)
Operating temperature:	10° to 35°C
Operating humidity:	15% to 85%
External dimensions:	
Height:	4-3/4" (120 mm)
Width:	17-1/4" (436 mm)
Depth:	13-3/4" (351 mm)
Weight:	Approximately 10-1/4 lbs. (4.6 kg) not including the Legal Cassette (Tray)

Duplex Unit (Option)

Paper feeding system: One-way system

Paper types: Ordinary plain paper (64 to 90 g/m²; 17 to 24 lbs.); recycled paper (64 to 90 g/m²; 17 to 24 lbs.)

Paper size: A4, A5, JIS B5, Letter, Legal, Executive

Operating temperature: 10° to 35°C

Operating humidity: 15% to 85%

External dimensions:

Height: 10-3/4" (274 mm)

Width: 12-3/4" (322 mm)

Depth: 6" (151 mm)

Weight: Approximately 5 lbs. (2.3 kg)

Interface Connector and Cable

Be sure to use only a parallel interface cable that meets the specifications described below.

Length:	Less than 10 feet (3 meters)
Connectors:	Printer: Parallel 36-pin connector PC: EIA 25-pin connector
Cable type:	Shielded. Each signal and ground pair should be twisted.
Pin assignments:	IEEE 1284 type-B connector

Note

- Minolta does not warrant the use of any particular cable. The user assumes all responsibility as to the quality and performance of the cable.

SIMM (Option)

You can expand printer memory by adding a single in-line memory module (SIMM). SIMMs are available from Minolta Technical Support.

Capacity:	1, 2, 4, 8, 16, 32 MB
Parity:	Non-parity
Type:	Fast page
Access speed:	60 ns or less
Number of Pins:	72

Appendix

Glossary

A

Glossary

The following definitions apply specifically to your Minolta printer.

application

A software program that performs a particular function, such as generating graphics or spreadsheets.

ASCII

Acronym for American Standard Code for Information Interchange.

base weight

SEE *paper basis weight*.

bitmap

A text character or graphic image that is defined by a pattern of dots.

click

To press and release a mouse button quickly. Often used to select an object. SEE *double-click*.

control panel

A bank of indicators that show the current status of the printer. Panel buttons that are located on the *control panel* make it possible to perform a variety of different operations.

default

Settings that are preset in the absence of user-specified settings.

dialog box

A box that appears in order for the user to input information or settings required for the printer to operate.

display

What appears upon the screen of the computer.

dpi

Acronym for dots per inch. Refers to the resolution that the printer can produce through the measure of dots printed per inch.

double-click

Pressing a mouse button twice in quick succession while keeping the mouse in place. Often used to open a dialog or enable a function.

SEE *click*.

duplex unit (option)

An option that can be installed onto your printer in order to generate double-sided, or duplex documents.

Ethernet interface connector (10/100BaseT or 10Base2) (option)

This port is used to connect the printer to an Ethernet.

face down tray

This tray receives the printed documents, face down, as they are output from the printer. The tray can hold up to 100 sheets of paper.

500-sheet second cassette (option)

SEE *Tray 2*.

500-sheet third cassette (option)

SEE *Tray 3*.

fusing unit

A part of the printer that fixes the toner image onto the paper.

gray scale

A series of shades ranging from black to white used to add detail to photo or scanned images, etc.

halftone

A printing technique using a pattern of dots to compose an image.

Also known as dithering.

icon

A graphic image on the screen that represents an element.

image transfer roller

The part inside a page printer that transfers the image from the photoconductive drum to the paper.

imaging cartridge

Contains the toner that is used to print the document.

laser printer

A high-resolution peripheral used to print text and graphics onto paper or other media. A rotating disk is used to reflect laser beams onto a photosensitive drum; the image of the page is then transferred via electrostatic charged toner. The final image is fused onto a piece of charged paper using heat as it is rolled against the drum, setting the toner onto the paper (or other media).

manual feed tray

Used to feed paper and envelopes into the printer manually.

N-up printing

A series of printer settings that produces multiple, reduced documents on one sheet of paper.

Network Interface Card (NIC) (option)

Facilitates the network connection of the printer.

off line

A state in which the printer cannot receive data or perform any other operation.

on line

A state in which the printer can receive data and operate.

operating system

A program or group of programs that control the functions of the computer and its peripheral devices such as the printer.

paper basis weight

The standard for specifying paper weight. The metric standard, applicable to all grades of paper is gm/m^2 . The U.S. system for *basis weight* varies according to the grade of paper and is based upon a 500 sheet ream. The measurement of weight in the U.S. is pounds.

paper size guide(s)

Three adjustable holders that secure paper in the paper tray from the left, right and front.

paper transport roller

A rolling mechanism that carries the paper through the various functions of the printer during the printing process.

parallel interface

An output/input port utilizing multiple data circuitry.

parallel interface connector

A connector that enables the transfer of data between the printer and the computer.

peripheral device

Any device that can be attached to the computer, such as a printer.

PostScript

Developed by Adobe Systems, PostScript is one of the most well known page description languages.

PostScript fonts

Precise, high-quality fonts that are engineered to be printed using a PostScript-compatible computer.

power cord socket

Connects the power cord and the printer.

power switch

Turns power to the printer on and off.

printer

A peripheral device that outputs data from a computer onto paper or other media.

printer driver

A software file that manages commands to the printer.

Print Manager

An application that manages the print queue and the print file.

output tray

SEE *face down tray*.

RAM

Acronym for random-access memory.

resolution

SEE *dpi*.

ROM

Acronym for read only memory.

screen font

A typeface that can be displayed on the computer's monitor.

second paper cassette unit (option)

An available option for your printer that expands printing capacity.

A tray unit that feeds an additional 500 sheets of paper to the printer.

SIMM

Acronym for single in-line memory module.

third paper cassette unit (option)

An available option for your printer that expands printing capacity.

A tray unit that feeds an additional 500 sheets of paper to the printer.

toner

Ink in the form of a plastic powder that is contained in a cartridge.

top cover

A cover attached to the printer that swings open by pressing a release button. Opening the cover provides easy access to the interior of the printer to perform basic maintenance procedures including the installation and replacement of the imaging cartridge as well as clearing paper misfeeds.

top cover release button

This button releases the hinge that locks the cover of the printer.

SEE *top cover*.

Tray 1

A tray that can hold up to 150 sheets of paper for feeding into the printer.

Tray 2 (option)

Five types of optional Tray 2 cassettes can be installed into the second paper cassette unit (SEE *second paper cassette unit*). Each cassette can hold up 500 sheets of one of the following paper sizes: A4, JIS B5, Legal, Letter and Executive.

Tray 3 (option)

Five types of optional Tray 3 cassettes can be installed into the third paper cassette unit (SEE *third paper cassette unit*). Each cassette can hold up 500 sheets of one of the following paper sizes: A4, JIS B5, Legal, Letter and Executive.

typeface

Refers to the design of a font.

watermark

A superimposed line of text or graphic upon a printed document.

Appendix

Index

B

-
- A** About **4-40**
 - A** Accessing the Printer Control Panel **4-52**
 - Adobe PostScript ROM-SIMM **2-28**

 - C** Cassette cover **1-2**
 - C** Change Hot Key Command (Setup Menu) **4-64**
 - Change Popup Message Command (Setup Menu) **4-64**
 - Cleaning the Outside of the Printer **6-6**
 - Cleaning the Paper Transport Roller **6-7**
 - Cleaning the Printer **6-6**
 - Clearing a Paper Misfeed **7-2**
 - Inside the Printer **7-2**
 - Paper Input Misfeed (from Manual Feed Tray) **7-7**
 - Paper Input Misfeed (from Second/Third Paper Cassette Unit) **7-8**
 - Paper Input Misfeed (from Tray 1) **7-7**
 - Paper Output Misfeed **7-6**
 - Close (button) **4-65**
 - Common Buttons **4-25, 4-43, 4-54, 5-5**
 - Configuration **5-12**
 - Configuration Screen **4-60**
 - Connecting the Power Cord **2-9**
 - Connecting to a Computer **2-15**
 - Control Panel **1-2, 1-4**
 - Control Panel Button **1-8**
 - Counter **5-11**
 - Counter Screen **4-59**

 - D** Device Option **4-40**
 - D** Displaying the Driver Setup Dialog (Windows 95/98/NT 4.0) **4-21**
 - Displaying the Driver Setup Dialog (Windows 3.1) **4-41**
 - DOS Printing Utilities **4-49**
 - Duplex Printing **3-15**
 - Duplex Unit **2-21, 8-6**

 - F** Face-Down Tray **1-2, 2-7**
 - F** Features **1-1**
 - Font Selection Screen **4-57**
 - Fusing unit **1-3**

 - G** Getting Around in the Printer Control Panel **4-53**
 - Glossary **A-1**
 - Grounding **2-2**

 - H** Help (button) **4-65**

 - I** Image transfer roller **1-3**
 - I** Imaging cartridge **1-3**
 - Indicator Lights **1-4**
 - Installation Precautions **2-1**
 - Installing the Face-Down Tray **2-7**
 - Installing the Printer Driver Under DOS **4-49**
 - Installing the Printer Driver Under Windows 95/98 **4-2**
 - Installing the Printer Driver Under Windows NT 4.0 **4-8**
 - Installing the Printer Driver Under Windows 3.1 **4-16**
 - Installing Tray 1 **2-8**
 - Interface Connector and Cable **8-7**
-

L Loading and Unloading the
Status Display **4-51**
Loading Paper **2-10, 3-3**
Loading Paper onto Tray 1 **3-4**
Loading Paper onto
Tray 2/Tray 3 **3-7**

M Manual feed tray **1-2**
Manual Paper Feed **3-11**

N Network Interface Card (NIC)
2-33
No output **7-14**

O On-line Help **5-3**
Opening the Printer Status
Display **5-1**
Operating Environment **2-4**
Operational Precautions **2-4**
Options **2-16**
Output Quality Screen **4-58**

P Page Layout **4-31**
Paper **3-1, 4-26, 5-6**
Type **3-1**
Size **3-1**
Paper Misfeed in the
Duplex Unit **7-9**
Paper Screen **4-55**
Paper size guide **1-2**
Parallel interface connector **1-3**
Power cord socket **1-3**
Power Source **2-2**
Power switch **1-2**
Print Quality Problems **7-10**
Printer **2-4**
Printer Control Panel Screens
4-54
Printer Parts and Accessories
1-2

Printer Setting **5-8**
Printer Setting Screen **4-61**
Printer Supplies **2-6**
Printing on Envelopes **3-13**

Q Quality **4-36**

R Replacing the Imaging
Cartridge **6-1**

S Second/Third Paper Cassette
Unit **1-2, 2-24, 8-4, 8-5**
Selecting a Location for the
Printer **2-1**
Set Display Mode Command
(Setup Menu) **4-64**
Setting-up **2-7**
Settings **4-44**
SIMM **2-16, 8-8**
Space Requirements **2-3**
Specifications
Duplex Unit (Option) **8-6**
Interface Connector and
Cable **8-7**
PageWorks 18 Printer **8-1**
Second Paper Cassette
Unit (Option) **8-4**
SIMM (Option) **8-8**
Third Paper Cassette
Unit (Option) **8-5**
Status Display Screen **4-64**
Switching Between the Expanded
and Reduced Views **5-3**
System Requirements **4-1**

T

Technical Support **7-1**

Test Print **5-10**

Testing the Printer **2-13**

To Access the Printer Control
Panel **4-52**

To Close the Printer Status
Display **5-2**

To Display the Driver Setup
Dialog Under Windows 95/98
4-21

To Display the Driver Setup
Dialog Under Windows
NT 4.0 **4-23**

To Display the Status Display
4-63

To Exit the Printer Control
Panel **4-52**

To Install the Printer Driver
4-16

To Install the Printer Driver
Using the Installer (Auto Run)
4-2, 4-8

To Load the Status Display
From the DOS Prompt **4-51**

To Open the Printer Status
Display **5-1**

To Print a Test Page or Demo
Page **4-54**

To Register Installed Options
4-54

To Remove the Status Display
From Memory **4-51**

To Replace the Imaging
Cartridge **6-2**

To Uninstall the Printer Driver
4-6, 4-14, 4-19

Top cover **1-3**

Top cover release button **1-2**

Tray 1 (multipurpose tray) **1-2**

Tray 2 (500-sheet second
cassette) **1-2**

Tray 3 (500-sheet third
cassette) **1-2**

Tray cover **1-2**

Turning On the Printer **2-12**

U

Using the Control Panel **5-4**

Using the Printer Control Panel
4-53

Using the Printer Driver Under
Windows 95/98/NT 4.0 **4-25**

Using the Printer Driver Under
Windows 3.1 **4-43**

Using the Printer Status Display
5-1, 5-2

Using the Status Display
4-63

MEMO



MINOLTA

Copyright 1999 MINOLTA CO., LTD Printed in Japan

The information contained in this manual is subject to change without notice to incorporate improvements made on the product or products the manual covers.